



PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)
(Estd. under the Panjab University Act VII of 1947—enacted by the Govt. of India)

SYLLABI

FOR

**B.A. & B.Sc. (GENERAL) FIRST YEAR
(SEMESTER SYSTEM)
EXAMINATIONS, 2020-2021**

(SEMESTER : FIRST AND SECOND)

i.e

First Semester : *November/December, 2020*
Second Semester : *April/May, 2021*

--:~:--

PHYSICAL EDUCATION**SEMESTER-I****THEORY :**

| | |
|---------------------|------------|
| Max. Marks | : 65 |
| Theory | : 60 marks |
| Internal Assessment | : 05 marks |
| Time | : 3 Hrs. |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS :

- There shall be nine questions in all, spread over Five Units.
- First question/Unit is compulsory. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks, i.e two marks each question.
- Rest of the paper shall contain four Units for descriptive questions. Each Unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each Unit.
- All questions/Units will carry equal marks.
- Private candidates and the students of the University School of Open Learning (USOL) are not allowed to take this subject.
- The University paper shall be set in three languages i.e., English, Punjabi and Hindi.

UNIT-I

12 Marks

Entire syllabus given in the Units II to V will be covered to set six short answer type questions in first question/Unit of the question paper which is compulsory.

UNIT-II

12 Marks

Education :

- Meaning and concept of Education

Physical Education :

- Meaning and definition of Physical Education, its aim and objectives.
- Need and importance of Physical Education in the Modern Society and its relationship with other subjects.

History of Physical Education :

- Pre and Post Independence Development of Physical Education in India.

UNIT-III

12 Marks

Olympic Games, Asian Games & Common Wealth Games :

- Ancient Olympic Games.
- Modern Olympic Games.
- Asian Games; and
- Common Wealth Games.

UNIT-IV

12 Marks

Sports Schemes, National Institutions of Sports and National and International Governing Bodies of Olympic Games :

- Raj Kumari Amrit Kaur Coaching Scheme.
- Netaji Subash National Institute of Sports, Patiala (NSNIS, Patiala).
- Sports Authority of India (SAI).
- Indian Olympic Association (IOA).
- International Olympic Committee (IOC).

UNIT-V

12 Marks

Basics of Handball :

- History of the game.
- Basic fundamentals.
- Equipment and specifications.
- Marking/layout of court.
- Rules and regulations (number of players, duration of game, number of officials required and general rules of play).
- Major tournaments and Arjuna Awardees of the game.

References :

1. Barrow, H. M. (1983) : *“Man and Movements : Principles of Physical Education”*, Philadelphia, Lea and Febiger.
2. Brar, R.S. Walia, R., Gill, M., Kanwar, S., Kalta, S., & Thapa, A.S. (2011) : *“Fundamentals of physical education”* Kalyani Publisher, Ludhiana, Punjab.
3. Bucher, C. A. (1979) : *“Foundations of Physical Education,”* St. Louis C.V. Mosby Company.
4. Chauhan, S.S. (1985) : *“Advanced Educational Psychology”*, New Print-India Pvt. Ltd., Sahibabad, U.P.
5. Khan, E. A. (1964) : *“History of Physical Education,”* Scientific Book Company.

6. Murti K. & Ram, P. N. (1990) : *“Educational Dimensions of Physical Education”*, 2nd Revised Edition, Print India, New Delhi.
7. Moslon (1976) : *“The Olympian”*, Olympic House, Canada.
8. Puni, A.T. (1980) : *“Sports Psychology”*, An abridged Translated by G.S.Sandhu, NIS, Patiala.
9. Sharma, P.D. (1996) : *“Olympics : Athens to Atlanta, 1896-1996”*, Friends Publications (India) Delhi.
10. Sheldon, W.H. (1940) : *“The Varieties of Human Physique”*, New York, Harper and Row Publishers.
11. Singh, Ajmer et al (2000) : *“Modern Text Book of Physical Education, Health and Sports”*, Kalyani Publishers, Ludhiana.
12. Skinner, C. E. (1964) : *“Educational Psychology”*, 4th edition, Prentice Hall of India Pvt. Ltd.
13. Narayanan T. C. and Hariharan S. (1975) : *“An Analytical History of Physical Education”*, South India Press, Karaikudi.

PRACTICAL

| | | |
|---------------------|---|----|
| Max. Marks | : | 35 |
| Practical | : | 30 |
| Internal Assessment | : | 05 |

ATHLETICS**Sprints (Types of Start and Finish) :**

- (a) Crouch start-fixing of starting blocks, getting in and off the block, emphasizing on body position, need of starting blocks in a sprint race.
- (b) Practice of starts with starting blocks using proper commands.
- (c) Training the students for correct running style.
- (d) Practice of Finishing the sprint with different techniques.
- (e) Rules and Regulations of Sprint races.

Middle Distance, Long Distance and Walking Events :

- (a) Marking of standard tracks, width of lanes and starting points for various races.
- (b) Practical of Standing Start.
- (c) Correct running and walking style, emphasis on proper body position and foot placement.
- (d) Running tactics.
- (e) Rules of competition.

Physical Fitness Tests : More emphasis shall be given on general physical fitness and principles of physical exercises (Speed and agility).

Test 1 SPEED : 50 mts dash test.

Test 2 AGILITY : Shuttle run test.

Division of Practical Marks :

Marks for each activity shall be divided as under :

Athletics 15 marks, participation and achievement in Athletics 5 marks, Physical fitness 5 marks, viva voce 5 marks and internal assessment 5 marks based on overall performance of a student during the current academic session which will be assessed by the teacher concerned.

Note : 1. Polevault, Hammer Throw Hurdles, Relay Races and steeple chase men are not included in the practical syllabus/course due to the fact that these events are highly technical. Moreover, in the absence of proper facilities required for the events mentioned above may prove to be injurious/fatal to the students.

2. 12 periods per week (6 periods for theory and 6 periods for practicals) shall be allotted to a Teacher /class for each semester.
3. The theory and practical class shall consist of 60-80 students and 30-40 students respectively.
4. The theory (Paper) shall consist of 65 marks and practical paper shall consist of 35 marks in each semester.
5. A student shall be given a project work related with athletics.

.....

PHYSICAL EDUCATION**SEMESTER-II****THEORY**

| | |
|---------------------|------------|
| Max. Marks | : 65 |
| Theory | : 60 marks |
| Internal Assessment | : 05 marks |
| Time | : 3 Hrs. |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS :

- There shall be nine questions in all, spread over Five Units.
- First question/Unit is **compulsory**. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks i.e., two marks each question.
- Rest of the paper shall contain four Units for descriptive questions. Each Unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each Unit.
- All questions/Units will carry equal marks.
- Private candidates and the students of the University School of Open Learning (USOL) are not allowed to take this subject.
- The University paper shall be set in three languages i.e., English, Punjabi and Hindi.

UNIT-I

12 Marks

Entire syllabus given in the Units II to V will be covered to set six short answer type questions in first question/Unit of the question paper which is compulsory.

UNIT-II

12 Marks

Cell:

- Meaning and definition of Anatomy & Physiology, Structure and Functions of a cell.

Skeletal System :

- Meaning and functions of skeletal system.
- Types of Bones and names of various bones of the body.

Muscular System :

- Introduction of Muscular system, structure and function of muscular system.
- Effect of short and long duration physical Exercise on the muscular system.

UNIT-III

12 Marks

Warming up, Cooling down and Physical Fitness :

- Warming up and cooling down in sports and its significance
- Meaning, definition and components of Physical Fitness.
- Influence of age, sex, body composition, diet, climate, exercise and training on Physical Fitness.

Kho-kho:

- History of the game
- Basic fundamentals
- Equipment and specifications
- Marking/layout of court
- Rules and regulations (number of players, duration of game, number of officials required and general rules of play); and
- Major tournaments and Arjuna Awardees of the game

UNIT-IV

12 Marks

Health & Health Education :

- Meaning and definition of health.
- Meaning, definition, objectives, scope, principles and importance of Health Education.
- Personal hygiene, its meaning and importance.

First Aid :

- Meaning and importance of First Aid in Physical Education and Sports with special reference to Drowning, Dislocation of a joint, Fracture of bone, Sprain and Strain.

UNIT-V

12 Marks

Biological Basis of Physical Education :

- Growth and Development, Differences between growth and development.
- Factors affecting growth and development.
- Heredity and Environment and its effects on Growth and Development.
- Various stages of growth and development.

References :

1. Brar, R.S. Walia, R., Gill, : *Fundamentals of Physical Education*” Kalyani Publisher, M., Kanwar,S., Kalta, S., & Thapa, A.S. (2011) Ludhiana Punjab.
2. Chaurasia, B.D. (1981) : *"Handbook of General Anatomy"*, CBS Publishers and Distributors, First Edition.
3. Dandiya, P.C., Jafer, Z., : *"Health Education and Community Pharmacy"*, Vallabh Prakashan, Y.K. & Afifa J. (1996) Pitampura, New Delhi.
4. Marley, W.P. (1982) : *"Health and Physical Fitness"*, CBS College Publishing.
5. Mathews, D.K. and : *"The Physiological Basis of Physical Education & Athletics"*, Second Fox, E.L. (1976) Edition, W.B. Saunders Co., Philadelphia.
6. Park, J.E. & Park, K. : *"Text Book of Preventive and Social Medicine"*, 10th Edition, (1985) Banarasi Dass Bhanot, Jabalpur, India.
7. Rose & Wilson : *"Foundations of Anatomy and Physiology"*, 5th Edition. (1981)
8. Sampath, K. & Maheshwar : *"Human Anatomy & Physiology"*, First Edition, Birla Publications, B.U. (1999) Delhi.
9. Dinshaw, S.F. (1997) : *Fighting fit for ever*. The Marine Sports Publishing Division, Bombay.
10. Shaphard, R.J. (1978) : *"The Fit Athlete"*, Oxford University Press.
11. Larry, S.G. (1982) : *Essential of exercise physiology*. Surjeet Publications, Delhi, First Indian Print.
12. Singh, Ajmer et. al. (2000) : *Modern text book of physical education, health and sports*, Kalyani Publishers, Ludhiana.
13. Wilmore, J. H. (1997) : *"Athletic Training and Physical Fitness"*, Allyn and Bacon, Inc., 470, Atlantic Avenue, Boston, Messachusetts.

PRACTICAL

| | | |
|---------------------|---|----------|
| Max. Marks | : | 35 |
| Practical | : | 30 marks |
| Internal Assessment | : | 05 marks |

Games :

Note : Volleyball or Kabaddi (NS) and any one game of the choice of the student (other than the two) which should be confined to the list of games approved by the Association of Indian Universities.

Volleyball

- Measurements (volleyball court, net, poles, antenna and ball).
- Number and position of players and officials.
- Types of service (under arm service, side arm service and tennis service).
- Types of passes (under hand and over head pass).
- Rules of the game.

OR**Kabaddi (NS)**

- Measurements (Kabaddi court for men and women).
- Number of players and officials.
- Fundamental offensive skills, touching with hand, leg thrust, front kick, side kick, Mule kick, jump and dive counter.
- Defensive Skill (wrist catch, normal grip, ankle catch, knee catch and chain formation).
- Tactics : (a) getting bonus point (b) counter to bonus line crossing (c) Delaying tactics for getting lona.

Physical Fitness Tests : More emphasis shall be given on general physical fitness and principles of physical exercises (Speed and agility).

Test 1 SPEED : 50 mts dash test.

Test 2 AGILITY : Shuttle run test.

Division of Practical Marks :

Marks for each activity shall be divided as under : Games 15 marks, participation and achievement in sports/games 5 marks, Physical fitness 5 marks, viva voce 5 marks and internal assessment 5 marks based on overall performance of a student during the current academic session which will be assessed by the teacher concerned.

- Note :**
- The choice of games by the students shall be confined to the list of games approved by the Association of Indian Universities.
 - 12 periods per week (6 periods for theory and 6 periods for practicals) shall be allotted to a Teacher/class semester.
 - The theory and practical class shall consist of 60-80 students and 30-40 students respectively.
 - The theory (Paper) shall consist of 65 marks and practical paper shall consist of 35 marks in each semester.
 - A student shall be given a project work related with athletics.

MUSIC (Instrumental)**SEMESTER-I****GENERAL INSTRUCTIONS :-**

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be upto 10 students in one section in Practical Class.
3. **There should not be more than eight students in a batch for practical examination.**
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting by one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 question of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent.**
8. The candidate can take vocal music or Tabla along with instrumental music.

THEORY (3 Hours duration) 45 Marks

PRACTICAL (20 minutes duration) 45 Marks

(i) Viva : 35 Marks

(ii) Harmonium : 05 Marks

(iii) Tabla : 05 Marks

Internal Assessment (Theory + Practical) (05 + 05) : 10 Marks

THEORY**Unit – I**

1. Elementary knowledge of Raga
2. Sangeet (Definition & importance)
3. Different Jaties of Ragas of the Present Raga System of North Indian Music.

Unit – II

1. Elementary knowledge of the following terms: (not more than 100 words) :
Swara, Saptak, Alankar. Aron, Avroh, Pakad, Thaata
2. Elementary knowledge of Bhatkhande Notation System.

Unit – III

1. Brief description of your own instrument.
2. Definition and types of Gat (Razakhani and Maseetkhani).

Unit – IV

Notation and Description of the prescribed Ragas and Talas :

1. Rag Bhopali (one Razakhani gat)
2. To write Alankars.
3. To write the notation of Tala (Dadra & Teental) with dugun layakaries

NOTE:- Both the questions from this part must contain one notation of Raga alongwith the notation of Talas.

Unit-V

1. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e theory and practical) out of which students have to attempt 09 questions of carry 01 marks each.**

PRACTICAL

1. Demonstration of different Alankars of Shudh & Vikrit Swaras on your instrument.
2. One Razakhani gat of raga Bhopali
3. Knowledge of the non-detailed raga : Deshkar (only Aroh-Avroh and Pakad).
4. Ability to demonstrate the following talas by hand in Ekgun and Dugun layakaries:
Dadra, Teental .
5. Ability to play Shudh-Swaras on Harmonium.
6. Ability to play Dadra tala on tabla.

Books Recommended

- | | | | |
|----|--|---|--------------------------|
| 1. | <i>Rag Parichaya Part II and III</i> | : | H.C. Srivastava. |
| 2. | <i>Sangeet Kaumudi Part-II (Punjabi)</i> | : | V.S. Nigam |
| 3. | <i>Sitar Marg, Part-II</i> | : | S. Bandopadhya. |
| 4. | <i>Sangeet Sar, Part-I</i> | : | Mrs. Veena Mankaran. |
| 5. | <i>Sangeetanjali, Part I & IV</i> | : | Pt. Onkar Nath Thakur. |
| 6. | <i>Sangeet Manjusha</i> | : | Dr. Indrani Chakravarti. |
| 7. | Sangeet Shastra Vigyan | : | Sh. Panna Lal Madan |
| 8. | Sangeet Kala ka Itihas | : | Sh. Panna Lal Madan |

.....

MUSIC (Instrumental)**SEMESTER-II****GENERAL INSTRUCTIONS**

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be upto 10 students in one section in Practical Class.
3. **There should not be more than eight students in a batch for practical examination.**
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting by one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 question of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent.**
8. The candidate can take vocal music or Tabla along with instrumental music

THEORY (3 Hours duration) 45 Marks

PRACTICAL (20 minutes duration) 45 Marks

(i) Viva : 35 Marks

(ii) Harmonium : 05 Marks

(iii) Tabla : 05 Marks

Internal Assessment (Theory + Practical) (05 + 05) : 10 Marks

THEORY**Unit-I**

1. Various developments (in brief) in the History of Indian Music of Modern Period.
2. Knowledge of Bhatkhande That Paddhati.
3. Study of Nada

Unit-II

1. Elementary knowledge of the following terms (not more than 100 words) :
Matra, Avartan, Sam, Tali, Khali and Vibhag
2. Study of various bols of Mizrab, Tora , Jhala

Unit-III

1. Elementary knowledge of Laya and Taal in Music
2. Brief life sketches and their contributions to Indian Music of the following great masters :-
 - (i) Pt. Ravi Shanker
 - (ii) Pt. V.N. Bhatkhande

Unit-IV

Definition and description of the prescribed Ragas and Tala :- Yaman , Kafi

1. One Maseetkhani Gat in any prescribed raga and talas :-Yaman , Kafi
2. To write the notation of Razakhani Gat of rag Kafi and Yaman with atleast four todas
3. Write in notation Jhaptala, Keharva Tala with dugun layakaries.

NOTE:- Both the questions from this part must contain one notation of Raga alongwith the notation of Talas.

Unit-V

1. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e theory and practical) out of which students have to attempt 09 questions of carry 01 marks each.**

PRACTICAL

1. One Maseetkhani Gat in any raga of your syllabus.
2. Razakhani gats with toras & Jhala in the following ragas :-Kafi, Yaman
3. Ability to demonstrate the following talas by hand in Ekgun and Dugun layakaries :Talas : Jhaptal & Keharva
4. Ability to play Teen tala on Tabla
5. Ability to play Aroh, Avron of Raag Yaman & Kafi on Harmonium.
6. Ability to play National Anthem on your own instrument.

Books Recommended:

1. Rag Parichaya Part II and III : H.C. Srivastava
2. Sangeet Kaumudi Part-II (Punjabi) : V.S. Nigam
3. Sitar Marg Part-II : S. Bandopadhyaya
4. Sangeet Sar, Part-I : Mrs. Veena Mankaran
5. Sangeetanjali, Part I & IV : Pt. Onkar Nath Thakur
6. Sangeet Manjusha : Dr. Indrani Chakravarti
7. Sangeet Shastra Vigyan : Sh. Panna La Madan
8. Sangeet Kala ka Itihas : Sh. Panna La Madan

FINE ARTS**SEMESTER – I****Theory (History of Art)**

| | |
|---------------------|------------|
| Max. Marks | : 60 |
| Written Paper | : 54 Marks |
| Internal Assessment | : 06 Marks |
| Total | : 60 Marks |

Instruction to paper-setters

The paper-setter is required to set **9 questions** in all. **The candidate is to attempt 5 questions as per the instructions given in the question paper.**

The first question shall be of short answer type containing 9 questions, spread over the whole syllabus. Each question is to be answered in about 25 to 30 words. It shall carry 18 marks and shall be a **Compulsory** question.

8 questions are to be set from the entire syllabus consisting of 4 Units. Two questions will be set from each Unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each Unit. So, the candidate shall attempt 4 questions in all out of 8 questions. **Each question** would be of **9 marks**.

Objectives :

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject matter of these works.

Unit-I : History of Indian Painting

- Pre-historic paintings from Bhim–Betka .
- Ajanta Cave Painting: Shaddanta Jataka, Padmapani, Avalokitesvara, Dying Princess, Mahajanaka Jataka, Decorative ceiling panels from Cave No. 2.

Unit-II : History of Indian Sculpture

- Indus Valley Civilization - Seals, Metal Dancing Girl, Red Sandstone Torso, Bust of Priest from Mohenjodaro.
- Mauryan Art: Rampurva Bull Capital, Lion Capital from Sarnath, Didarganj Yakshi.

Unit-III : History of Western Art

- Pre-historic Art - Wounded Bison (Altamira), Venus of Willendorf.
- Egyptian Art - Palette of King Narmer, Seated Scribe.
- Greek Art - Standing Youth, Discobolus, Laocoon Group.

Unit-IV : Definition of Key Terms and General Concepts

- Colour: Colour Theory, Colour wheel, Colour terminology and meaning of colour, Line - different types of lines and its meaning, Perspective: Linear and Aerial, Foreshortening.

Pedagogy :

The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitions and art galleries are a part of study.

Suggested Readings :

1. Kramrisch, Stella : Survey of Painting in the Deccan, Oriental Books Corporation, New Delhi, 1983.
2. Majumdar, R.C. (editor) : The History and Culture of Indian People, Vols. I, II and III (Sculpture and Painting Sections only) Bhartiya Vidya Bhawan, Bombay, 1988, 1990, 1996.
3. Gupte and Mahajan : Ajanta, Ellora and Aurangabad Caves, D.B. Taraporevala Sons & Co. Pvt. Ltd., Bombay, 1962.
4. Rowland, Benjamin : The Art and Architecture of India, Penguin Books, Great Britain, 1959.
5. Saraswati, S.K. : A Survey of Indian Sculpture, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
6. Ray, N.R. : An Approach to Indian Art, Publication Bureau, Panjab University, Chandigarh, 1974.
7. Barrett, D. and Gray, B : Painting of India, The World Publishing Co., Ohio, 1963.
8. Archer, W.G. : India and Modern Art, George Allen & Unwin Limited, London, 1959.
9. Brown, Percy : Indian Painting under the Mughals, Cosmo Publications, New Delhi, 1981.
10. Aggarwala, V.S. : Heritage of Indian Art, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
11. Aggarwala, V.S. : Indian Art (English), Varanasi, 1965.
12. Aggarwala, V.S. : Bhartiya Kala (Hindi), Prithvi Prakashan, 1977.
13. Read, Herbert : Meaning of Art, Faber & Faber, London, 1972.
14. Janson, H.W. : History of Art, Thames & Hudson, London, 2001.
15. Gardener, Helen : Art Through the Ages, Harcourt Brace & Co., U.S.A., 1991.
16. Gombrich, E.H. : The Story of Art, Phaidon Press Limited, New York, 1995.

PRACTICAL

This paper consists of three sections :

| | | |
|--|------------------------|--------------------------|
| 1. Still Life Study | Max. Marks : 30 | Max.Time: 5 hours |
| 2. Drawing from Life | Max. Marks : 30 | Max.Time: 5 hours |
| 3. Landscape Painting (on the spot) | Max.Marks: 30 | Max.Time: 5 hours |

Total : 90 Marks

SECTION-I Still Life Study (30 Marks)

1. Drawing and Painting of a number of objects and to study the proportion, volume and rhythmic relationship of masses, study and rendering of texture of different objects.
2. Number of objects : Three objects with display at the back.
3. Medium : Pencil, charcoal or Pastel colours.
4. Size : ½ Imperial sheet

SECTION-II Drawing from Life (30 Marks)

1. Portrait : From Live Model or Cast in Monochrome
2. Medium: Pencil Shading, charcoal
3. Size: ½ Imperial size sheet.
4. Emphasis should be on structure, proportion, foreshortening, Textural Values, Posture & Individuality of the model.

SECTION-III Landscape Painting (on the spot) (30 Marks)

1. Landscape painting: Study relationship of objects, their arrangements in the foreground, middle and distance, texture, relative size of masses, tones and colours, use of linear and aerial perspective.
2. Medium : Pencil Sketching or Pastel, Pencil colours.
3. Size : ½ Imperial sheet

SESSIONAL MARKS : 50 (Based on work related equally to 3 sections).

Sessional marks will be given on the basis of the work done during the session in all the three sections. At least, three works will be submitted in each section. Sessional marks shall be given by external and internal examiners jointly. In case of difference of opinion, marking may be done separately by each examiner giving marks out of 50% of the aggregate of the sessional marks.

NOTE :

1. Choice of option to be offered would depend on the facility available in each Institution concerned.
2. Minimum of 9 hours' teaching per week be assigned to the subjects and out of nine hours, six hours be earmarked for practical classes and three hours for theory classes (per week)

.....

FINE ARTS**SEMESTER – II****Theory (History of Art)**

| | |
|---------------------|------------|
| Max. Marks | : 60 |
| Written Paper | : 54 Marks |
| Internal Assessment | : 06 Marks |
| Total | : 60 Marks |

INSTRUCTIONS TO PAPER-SETTERS

The paper-setter is required to set **9 questions** in all. **The candidate is to attempt 5 questions as per the instructions given in the question paper.**

The first question shall be of short answer type containing 9 questions, spread over the whole syllabus. Each question is to be answered in about 25 to 30 words. It shall carry 18 marks and shall be a **Compulsory** question.

8 questions are to be set from the entire syllabus consisting of 4 Units. Two questions will be set from each Unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each Unit. So, the candidate shall attempt 4 questions in all out of 8 questions. **Each question** would be of **9 marks**.

Objectives :

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject matter of these works.

Unit-I : History of Indian Painting

- Sittanavasal - Lotus Pond.
- Eastern Indian Miniature Painting with special reference to Ashtasahasrika Prajnaparamita.
- Western Indian Miniature Painting with special reference to Nativity of Mahavira from Palm-leaf manuscripts.

Unit-II : History of Indian Sculpture

- Bharhut - Dream of Queen Maya, Yakshas and Yakshini figures.
- Amravati - The Great Departure, Subjugation of Nalagiri.

Unit-III : History of Western Art

- Roman Art - Augustus of Prima Porta, Arch of Titus.
- Byzantine Art – Mosaic: Emperor Justinian and his Attendants in S. Vitale.
- Gothic Art - Madonna Enthroned by Duccio, The Lamentation by Giotto.

Unit-IV : Definition of Key Terms and General Concepts

Mural - Fresco and Tempera techniques, Miniature, Chiaroscuro (light-shade), Sculpture in round and in relief.

Pedagogy :

The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitons and art galleries are a part of study.

Suggested Readings :

1. Kramrisch, Stella : Survey of Painting in the Deccan, Oriental Books Corporation, New Delhi, 1983.
2. Majumdar, R.C. (editor) : The History and Culture of Indian People, Vols. I, II and III (Sculpture and Painting Sections only) Bhartiya Vidya Bhawan, Bombay, 1988, 1990, 1996.
3. Gupte and Mahajan : Ajanta, Ellora and Aurangabad Caves, D.B. Taraporevala Sons & Co. Pvt. Ltd., Bombay, 1962.
4. Rowland, Benjamin : The Art and Architecture of India, Penguin Books, Great Britain, 1959.
5. Saraswati, S.K. : A Survey of Indian Sculpture, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
6. Ray, N.R. : An Approach to Indian Art, Publication Bureau, Panjab University, Chandigarh, 1974.
7. Barrett, D. and Gray, B : Painting of India, The World Publishing Co., Ohio, 1963.
8. Archer, W.G. : India and Modern Art, George Allen & Unwin Limited, London, 1959.
9. Brown, Percy : Indian Painting under the Mughals, Cosmo Publications, New Delhi, 1981.
10. Aggarwala, V.S. : Heritage of Indian Art, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
11. Aggarwala, V.S. : Indian Art (English), Varanasi, 1965.
12. Aggarwala, V.S. : Bhartiya Kala (Hindi), Prithvi Prakashan, 1977.
13. Read, Herbert : Meaning of Art, Faber & Faber, London, 1972.
14. Janson, H.W. : History of Art, Thames & Hudson, London, 2001.
15. Gardner, Helen : Art Through the Ages, Harcourt Brace & Co., U.S.A., 1991.
16. Gombrich, E.H. : The Story of Art, Phaidon Press Limited, New York, 1995.

PRACTICAL**This paper consists of three sections :**

| | | |
|--|-------------------------|--------------------------|
| 1. Still Life Study | Max. Marks : 30 | Max.Time: 5 hours |
| 2. Drawing from Life | Max. Marks : 30 | Max.Time: 5 hours |
| 3. Landscape Painting (on the spot) | Max.Marks : 30 | Max.Time: 5 hours |
| | Total : 90 Marks | |

SECTION-I Still Life Study (30 Marks)

1. Drawing and Painting of a number of objects to study proportion, volume and rhythmic : relationship of masses, study and rendering of texture of different objects.
2. Number of objects : Three objects with display at the back.
3. Medium : Oil, acrylic or water colours.
4. Size : ½ Imperial sheet or Canvas Pad

SECTION-II Drawing from Life (30 Marks)

1. Portrait : From Live Model or Cast in Monochrome
2. Medium: Charcoal or Pastels (Monochrome)
3. Size: ½ Imperial size sheet.
4. Emphasis should be on structure, proportion, foreshortening, Textural Values, Posture & Individuality of the model.

SECTION-III Landscape Painting (on the spot) (30 Marks)

Landscape painting: Study relationship of objects, their arrangements in the foreground, middle and distance, texture, relative size of masses, tones and colours, use of linear and aerial perspective.

1. Medium : Oil, acrylic or water colours.
2. Size : ½ Imperial sheet or Canvas pad

SESSIONAL MARKS : 50 (Based on work related equally to 3 sections).

Sessional marks will be given on the basis of the work done during the session in all the three sections. At least, three works will be submitted in each section. Sessional marks shall be given by external and internal examiners jointly. In case of difference of opinion, marking may be done separately by each examiner giving marks out of 50% of the aggregate of the sessional marks.

- NOTE :**
1. Choice of option to be offered would depend on the facility available in each Institution concerned.
 2. Minimum of 9 hours' teaching per week be assigned to the subjects and out of nine hours, six hours be earmarked for practical classes and three hours for theory classes (per week)
-

PSYCHOLOGY
SEMESTER –I

Objectives :

- (I) The course introduces to the students the general concepts and historical viewpoints in general psychology. The students would also get an understanding of the principles and theories in different areas like personality, motivation, intelligence, etc. The course also appraises them of the concept of growth and development and also introduces them to the elementary statistics.
- (II) Pedagogy of the Course Work :
80% Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

Paper : GENERAL PSYCHOLOGY-I

| | |
|---------------------|------------|
| Max. Marks | : 80 |
| Theory | : 70 marks |
| Internal Assessment | : 10 marks |
| Time | : 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

There shall be **9** questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be **Compulsory** question. Rest of the paper shall contain **4** Units. Each Unit shall have **two** questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit – 4 in all. Each question will carry 14 marks.

Unit I

Nature of Psychology, Goals and Branches of Psychology, Historical Evolution of Psychology, Development of Psychology in India.

Unit II

Emotions : Definition and Concept of Emotions, Types of Emotions, Theories of Emotions (James–Lange, Cannon Bard, Schacter-Singer Theory.), Introduction to Emotion Intelligence.

Unit III

Method of Psychology: Experimental Method, Observation Method.
Sampling Techniques, Survey Method.

Unit IV

Motivation: Definition, Nature, Concept. Types of Motives (Physiological, Psychological, Social): Theories of Motivation: Humanistic (Maslow), Need Theories (McClelland and Murray).

Note: The use of non-programmable calculators and statistical tables is allowed in the examination.

PSYCHOLOGY PRACTICALS

Max. Marks : 20

Time : 3 Hrs.

Four practicals have to be performed out of six :

1. Level of Aspiration.
2. Facial Expressions in Emotions
3. Public Opinion Survey.
4. Measurement of Motivation
5. Zeigarnik Effect
6. Familiarization of any five apparatuses

Suggested Readings:

1. Baron, R.A. (2003). Psychology, New Delhi : Pearson Education.
2. Ciccarelli, D. (2008). Introduction to Psychology, Delhi: Pearson.
3. Das, J.P. (1998). The Working Mind: An Introduction to Psychology. New Delhi: Sage.
4. Feldman, R.S. (2014). Understanding Psychology. New Delhi : Tata McGraw Hill.
5. Garrett, H.E. (1966). Statistics in Psychology and Education, New Delhi : Vakils, Feffer and Simons.
6. Kerlinger, F. N. (1964). Foundations of Behavioural Research. New York: Rinehart and Winston.
7. Morgan, C.T., King, R.A., J.R. Weisz and Schopler, J. (1987). Introduction to Psychology, Singapore: McGraw, Hill.
8. Singh, A.K. (1986). Tests, measurements and research methods in behavioural sciences. Tata McGraw-Hill.

.....

PSYCHOLOGY**SEMESTER –II****Objectives :**

- (I) The course introduces to the students the general concepts and historical viewpoints in general psychology. The students would also get an understanding of the principles and theories in different areas like personality, motivation, intelligence, etc. The course also apprises them of the concept of growth and development and also introduces them to the elementary statistics.
- (II) Pedagogy of the Course Work :
80% Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

Paper : GENERAL PSYCHOLOGY-II

| | |
|---------------------|------------|
| Max. Marks | : 80 |
| Theory | : 70 marks |
| Internal Assessment | : 10 marks |
| Time | : 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

There shall be **9** questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be **Compulsory** question. Rest of the paper shall contain **4** Units. Each Unit shall have **two** questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit – 4 in all. Each question will carry 14 marks.

Unit I

Personality – Concept, Trait Theories (Eysenck, Costa and MCrae), Psychoanalytic Theory (Freud).

Humanistic Theory (Rogers). Measurement of Personality, (Self Report Measures, Projective Techniques and Behavioural Assessment)

Unit II

Statistics: Graphical Representation of Data: Measures of Central Tendency and Variability.

Correlation - Meaning of Correlation, Rank Order and Product Moment-Correlation and Interpretation.

Unit III

Development: Concept, Heredity and Environmental Influences. Theories of Development : Erickson, Psychosocial Theory, Piaget's theory of Cognitive Development.

Unit IV

Intelligence : Concept, Theories of Intelligence: Spearman, Thurstone, Cattell, Guilford. Measurement of Intelligence (Verbal and Non Verbal Test and Individual and Group Tests).

Note : The use of non-programmable calculators and statistical tables is allowed in the examination.

PSYCHOLOGY PRACTICALS

Max Marks : 20
Time : 3 Hrs.

Four practicals have to be performed out of the following :

1. Verbal Test of Intelligence
2. Non Verbal Test of Intelligence
3. Performance Test of Intelligence.
4. McCosta & Crae NEO Big Five Personality Inventory.
5. Interest Inventory.
6. Familiarization of any five apparatuses

Suggested Readings:

1. Baron, R.A. (2002). Psychology, New Delhi : Pearson Education.
2. Ciccarelli, D. (2008). Introduction to Psychology, Delhi: Pearson.
3. Das, J.P. (1998). The Working Mind: An Introduction to Psychology. New Delhi: Sage.
4. Feldman, R.S. (1996). Understanding Psychology, New Delhi : Tata McGraw Hill.
5. Garrett, H.E. (1966): Statistics in Psychology and Education, New Delhi Vakils, Feffer and Simons.
6. Guilford, J.P., and Fruchter, B. (1981). Fundamental Statistics in Psychology and Education Singapore: McGraw Hill.
7. Jain, S. (2000). Introduction to Psychology. New Delhi: Kalyani.
8. Kerlinger, F. N. (1964). Foundations of Behavioural Research. New York: Holy, Tinvsty snf Eindyon.
9. Morgan, C.T., King, R.A., Weisz ,J.R. and Schopler, J. (1987). Introduction to Psychology, Singapore: McGraw, Hill.
10. Singh, A.K. (1986). Tests, measurements and research methods in behavioural sciences. Tata McGraw-Hill.

HOME SCIENCE**SEMESTER- I****Scheme of Examination**

| Theory | | | | | | Practical | | | | |
|---------------------------|--|----------------------|---------------------|-----------------------|------------------|----------------------|---------------------|-----------------------|------------------|--------------------|
| <i>Sr. No.</i> | <i>Name of Paper</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks allotted</i> | <i>Int. Ass.</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks Allotted</i> | <i>Int. Ass.</i> | <i>Total Marks</i> |
| 1. | Family Resource Management, Hygiene & Health | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total : <u>100</u> | | | | | | | | | | |

Note : 1. Each Practical group will have 12-15 students.

PAPER : FAMILY RESOURCE MANAGEMENT, HYGIENE & HEALTH

| | |
|-------------------|-------------------------|
| Max. Marks | 50 |
| Theory | 45 |
| Int. Ass. | 05 |
| Periods | 6 Hours per Week |

INSTRUCTIONS FOR THE PAPER SETTER :

The question paper will consist of five Sections : A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES :

Candidates are required to attempt one question each from the Sections A, B, C and D of the question paper and the entire section E.

Section A

- I (a) Meaning & Importance of Home Science.
 (b) Functions of Home.
- II (a) Home Scientist as an Entrepreneur.
 (b) Agencies promoting Entrepreneurship- Commercial Banks, District Industries, Co-operative Societies.

Section B

III Interior Decoration

- (a) Elements of Art - Line, Form, Pattern, Texture, Colour, Light and Space.
- (b) Principles of Art in relation to interior decoration - Harmony, Balance, Rhythm, Proportion & Emphasis.

IV Colour

- (a) Characteristics of colour
- (b) Colour wheel
- (c) Colour schemes

Section C

V Hygiene & Health

- (a) Definition of Hygiene, Health
- (b) Definition of infection, sources, carrier and control
- (c) Definition and types of immunity.
- (d) Immunization schedule

VI Causes & Spread of following diseases.

- (a) Caused by insects – Malaria & Dengue
- (b) Conveyed by ingestion – Enteric Fever, Cholera, Dysentery & Diarrhea
- (c) Spread by droplet infection- chickenpox, measles, mumps & TB.
- (d) Sexually transmitted diseases -AIDS.

Section D

VII Food Hygiene

- (a) Definition
- (b) Hygiene during preparation, service and storage of food.
- (c) Domestic purification of water-
 - Aquaguard
 - Reverse Osmosis

VIII Food Adulteration

- (a) Definition
- (b) Common food adulterants and their effects on health.
- (c) Household Methods of testing food adulteration.

PRACTICAL

Max. Marks : 50 Marks
Practical Theory : 45 Marks
Inter. Asses. : 05 Marks
Time : 3 hours per week.

1. Floor Decoration - Making of Alpana and Rangoli for different occasions.
2. Methods of detecting adulteration in any five foods such as ghee, castor sugar, milk, honey, red chili powder, tea leaves, turmeric powder etc.
3. Table setting, Table manners and Napkin foldings.
4. Making of a Chart/Model/Poster of Colour Wheel or Colour Schemes.
5. Survey of 5 households to study Immunisation schedule.

.....

HOME SCIENCE
SEMESTER- II

Scheme of Examination

| Sr. | Theory | | | | | Practical | | | | |
|---------------------------|--|---------------|--------------|----------------|-----------|---------------|--------------|----------------|-----------|-------------|
| | Name of Paper | No. of Papers | Time in hrs. | Marks allotted | Int. Ass. | No. of Papers | Time in hrs. | Marks Allotted | Int. Ass. | Total Marks |
| 1. | Family Resource Management, Hygiene & Health | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total : <u>100</u> | | | | | | | | | | |

Note: 1. Each Practical group will have 12-15 students.

PAPER: FAMILY RESOURCE MANAGEMENT, HYGIENE & HEALTH

| | |
|-------------------|-------------------------|
| Max. Marks | 50 |
| Theory | 45 |
| Int. Ass. | 05 |
| Periods | 6 Hours per Week |

INSTRUCTIONS FOR THE PAPER SETTER:

The question paper will consist of five Sections: A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt one question each from the Sections A, B, C and D of the question paper and the entire section E.

Section A

I. Resources

- (a) Introduction
- (b) Classification

II. Time Management

- (a) Steps in making time plans.
- (b) Tools in time management- peak loads, work curves and rest periods.

- III. Money Management
 - (a) Types of Income
 - (b) Budget- Types, Advantages and limitations of budgeting, factors affecting budget, basic steps in planning of budget.
 - (c) Means of supplementing family income.
- IV. Energy Management
 - (a) Fatigue – Types, Symptoms & Effects.
 - (b) Work Simplification (Mundel)

Section B

- V. Furniture
 - (a) Factors affecting selection of furniture.
 - (b) Furniture requirement and arrangement for different rooms.
 - (1) Master Bedroom
 - (2) Drawing Room
 - (3) Dining Room
 - (4) Children's Room
- VI. Flower Arrangement
 - (a) Definition and Types
 - (b) Principles of art in flower arrangement
 - (c) Material and Essential equipment used in Flower Arrangement.

Section C

- VII. The Home maker as a Consumer
 - (a) Concept and objectives of Consumer Education.
 - (b) Rights and responsibilities of a Consumer.
 - (c) Malpractices in the production of consumer goods.
 - (d) Consumer guides- Standardized marks, labels, packaging, media and consumer redressal forum.
- VII. Health Education
 - (a) Aims and Objectives
 - (b) Scope
 - (c) Importance

Section D

- IX. Digestive System
 - (a) Diagram of Alimentary Canal
 - (b) Functions of mouth, stomach, intestines (Small and Large)
 - (c) Digestion of Carbohydrates, proteins and fats.
- X. Simple first aid for burns, poisoning, electric shock, bleeding, drowning, fainting, fractures, insect bite, snake bite, nose bleeding, sunstroke, sprain, heart attack.

PRACTICAL

| | |
|---------------|---------------------|
| Max. Marks | : 50 Marks |
| Practical | : 45 Marks |
| Inter. Asses. | : 05 Marks |
| Time | : 3 hours per week. |

1. Making of fresh flower arrangement for a corner and centre table.
2. Introduction to basic first aid techniques.
3. Cleaning & Polishing of household metals: brass, copper, silver, iron, aluminium, plastic and nonstick ware.
4. Cleaning and polishing of Wooden Furniture.
5. Cleaning of Glass windowpanes.

References

1. Anna Hong Rutt : *Home Furnishing*, Wiley Eastern Ltd., New Delhi, 1973.
2. Hazel Thompson, Criag old Day Rush : *Home with character*, Univesal Book Stall, Delhi, Kanpur 1969.
3. Betty Pepis : *Interior Decoration A to Z*, Doubleday & Co., Inc. New York, 1965.
4. Ray Faulkner, Sarah Faulkner : *Inside Today's Home*, Holt, Rinehart & Winston, 1973.
5. R.S. Deshpandae : *Modern Ideal Home for India*, United Book Corporation, Poona, 1983.
6. R.S. Deshpandae : *Build your own Home*, United Book Corporation, Poon, 1983.
7. M.A. Varghese, N.M. Ogale, K. Srinivisan : *Home Management*, Wiley Eastern Ltd., 1985.
8. The Educational Planning Group, Delhi : *Home Management*, Arya Publishing House, New Delhi, 1986.
9. Stella Sournderaj : *A text book of Household Arts*, Orient Longman Ltd., 1974.
10. A Margaret Kaye : *A Student Hand Book of Housewifery*, J.M. Dent and Sons Ltd., London, 1958.
11. Ball, Vetrico Kloss : *Art of Interior Design*, The Macmillan Co., New York, 1962.
12. Goldstein H.I. and Goldstein V. : *Art in Everyday Life*, Macmillan, New York, 1964.
13. Swanson, Betty : *Introduction to Home Management*, Macmillan Co., New York, 1981.
14. Julia Elements : *101 ideas for flower arrangement*, C. Arthur Persons Ltd., London, 1963.
15. Halse A.O. : *The Use of Colour in Interior*, Mcgraw Hill Book Co., New York, 1961.
16. Walter Ian Fischman, Richerd Demsbe, William Bernard: *Basic Home Repairs*, A Grosset Super Good Life Book Publishers, New York, 1975.
17. Saxena, R. R. (1990) *Social and Preventive Medicine*, CBS Publishers and Distributors, Delhi.
18. Selman, A. C. (1992) *Health & Longevity*, Oriental watchman Publishing house, Park, Poona, India.
19. Bedi, Y. P. : *Hygiene and Public Health*.
20. Pearce Evelyn. C., *Anatomy and Physiology for Nurses*, Oxford University.
21. Best, Charles, H.and Taylor, N.B., *The Living Body – A Text in Human Physiology*, Asia Publishing House.
22. Phadke : *Aids to Hygiene*
23. Bhatia, B.C. and Sri P.N. (1968), *Elementary Hygiene*, Oriental Longman.
24. Seetharam, (2005) *An Introduction to Family Resource Management*, CBS Publishers and Distributors, Delhi.
25. Kaur and Macneil, (1994), *Theory and Practice of Home Science*, Subject Publication, New Delhi.

Journals

1. Indian Journal of Home Science, Home Science Association of India, Sri Avinashilingam Home Science College for Women, Coimbatore.
2. Inside Outside, Edited and Published by Malika Sarabhai, Wadia Building, 19/21 Dalal Street, Bombay.
3. Journal of Home Economics, American Home, A Venue, NW Wahington.

COMPUTER SCIENCE**SEMESTER-I****SCHEME OF EXAMINATION**

| FIRST SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|----------------------|--------------------|--|---------------|-----------|-----------|---------------|
| Paper – CS01 | Theory-A | Computer Fundamentals | 3 | 30 | 5 | 35 |
| Paper –CS02 | Theory-B | PC Software | 3 | 30 | 5 | 35 |
| Paper – PCS01 | Practical-C | Practical Based on Paper – CS01 | 3 | 30 | -- | 30 |

Note : Practical marks will include the appropriate weightage for proper maintenance of Lab. Record.

Paper-CS01 : Computer Fundamentals

Objective : To teach the students the fundamentals of computer related to its hardware & software.

- Note :*
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT - I

Computer Appreciation: Introduction to computers, characteristics of computer; History of computers; Classification of computers on size: (Micro, Mini, Mainframe and super computers), Working Principles, Generations; Applications of computers; commonly used terms–Hardware, Software, Firmware. Basic Computer Organization: Block diagram of computer system, Input unit, Processing Unit and Output Unit; Description of Computer input devices: Keyboard, Mouse, Trackball, Pen, Touch screens, Scanner, Digital Camera; Output devices: Monitors, Printers, Plotters.

UNIT –II

Computer Memory: Representation of information: BIT, BYTE, Memory, Memory size; Units of measurement of storage; Main memory: main memory organization, RAM, ROM, PROM, EPROM; Secondary storage devices: Sequential Access Memory, Direct Access Memory Magnetic Tapes, Magnetic disks, Optical disks: CD, DVD; Memory storage devices: Flash Drive, Memory card;

UNIT – III

Types of software: System and Application software; **Programming Languages:** Generation of Languages; Translators - Interpreters, Compilers, Assemblers and their comparison. **Range of Applications:** Scientific, Word Processing, Spread Sheets, E-commerce, Business, Educational, Industrial, National level weather forecasting, Remote Sensing, Planning Multilingual Applications.

UNIT – IV

Operating Systems : Components of Operating System; Functions of Operating System; Types of Operating System; Linux/Dos/Windows. **Computers and Communication:** Single user, multi-user, workstation, and client server systems. Computer networks, Network protocols. LAN, WAN, Services offered by Internet.

Suggested Readings :

1. Basandra, S.K. : Computers Today, Galgotia.
2. Sinha P.K. & Sinha Priti : Computer Fundamentals, BPB Publications

Paper-CS02: PC Software

Objective : To teach the basic functionality of Disk Operating System & Windows. To impart detailed knowledge for creating word processing, spreadsheet & presentation documents.

- Note :*
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT – I

Concept of files and directories; Disk Operating System: DOS, System Files, types of DOS commands: Internal and External commands: Introduction to AUTOEXEC.BAT, Directory commands: XCOPY, DEL, RENAME, ATTRIB, BACKUP, RESTORE, FIND, SYS; General commands: TYPE, DATE, TIME, PROMPT; Batch Files, Wild Cards, Line Editor.

UNIT – II

Introduction to graphical user interface, window operating system, Anatomy of windows, organizing folders and files, recycle bin, my computer, windows explorer, control panel.

UNIT – III

Word Processing : Basics of Word Processing; Opening, Creating, Saving, Printing and Quitting Documents, Using the Interface (Menu Toolbars), Editing Text (Copy, Delete, Move), Finding and Replacing Text, Spell Check, Autocorrect; Auto Text, Character formatting, Page formatting; Document Enhancement; Adding Borders and shading, Adding Headers and Footers, Setting up Multiple columns, Sorting blocks, Adjusting Margins and Hyphenating Documents, Creating Master Documents, Creating Data Source, Merging Documents, Using Mail merge feature for labels and envelopes; Inserting Pictures, Tables, Working with equations.

UNIT – IV

Spread Sheet : Worksheet overview, Row, Column, Cells, Menus, Creating Worksheet, Opening, Saving, Printing Worksheets; Calculations, Auto fill, Working with Formulae, Data Formatting (number formatting, date formatting), Working with Ranges, Establishing Worksheet links; Creating, Sorting and Filtering Data Base; Creating chart, Adding Titles, Legends etc. to charts, Printing Charts, Creating Macros, Record Macros, Running Macros, Assigning Macros to Buttons, Functions (Statistical, Financial, Mathematical, String, Date and Time).

MS-Power Point: Creating, Saving, Printing Presentation; Selecting Design Templates, Animations and Transitions, Auto Content Wizard.

Suggested Readings :

1. Ludd Robbins : *Mastering DOS.*
2. Alan R. Miller : *The ABC's of DOS-6.2.*
3. Richard Allen King : *MS-DOS H. B.*
4. Gilbert Held : *IBM PC and PCXT User's Reference Manual.*
5. Cowart, Robert : *Using Microsoft Windows 2000 Professional, Que Publishing, 2000.*
6. Taxali, Ravikant : *PC Software Made Simple, New Delhi.*
7. Mansfield, Ron : *Compact Guide to Windows, Word & Excel.*

Paper – PCS01 : Practical : Practicals Based on Paper CS02

.....

COMPUTER SCIENCE SEMESTER-II

SCHEME OF EXAMINATION

| SECOND SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|----------------------|--------------------|--|---------------|-----------|-----------|---------------|
| Paper – CS03 | Theory-A | Operating System Concepts | 3 | 30 | 5 | 35 |
| Paper –CS04 | Theory-B | C Programming | 3 | 30 | 5 | 35 |
| Paper – PCS02 | Practical-C | Practical Based on Paper – CS04 | 3 | 30 | -- | 30 |

Paper-CS03: Operating System Concepts

Objective : To teach the students various operating system concepts relating to managing processes, memory and deadlocks.

- Note :*
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT - I

Operating Systems (OS): Introduction, need of operating system and functions of operating system, Types of OS: Multi-user, Multitasking, Multiprocessing and Real time Operating Systems, Parallel systems, Distributed systems; Structure of Operating System;

UNIT - II

Process Management: Introduction to Process, PCB, Process States, CPU Scheduling: Scheduling Criteria and Algorithms: FCFS, SJF, Priority, Round Robin, Multilevel Queue Scheduling, Multilevel Feedback Queue Scheduling.

UNIT - III

Deadlocks: Introduction, Necessary and sufficient conditions for Deadlocks, Resource allocation graph, Introduction to methods for handling deadlocks, deadlock prevention, deadlock avoidance: Banker Algorithm, deadlock detection and recovery.

UNIT - IV

Memory Management: Logical vs Physical address space, Swapping, Introduction to Paging, Segmentation, Virtual Memory-Demand paging, Introduction to Page Replacement algorithms: FIFO, Optimal Page replacement and LRU

Suggested Readings :

Essential :

1. Peterson, J.L.& Silberschatz, A., Operating System Concept, Addison Wesley, reading.

Further Reading :

2. Brinch, Hansen, Operating System Principles, Prentice Hall of India
3. Haberman, A.N., Introducing to Operating System Design Galgotia Publication, New Delhi

Paper-CS04 : C Programming

Objective : To teach the student basic constructs of ‘C’ programming language and enable them to create ‘C’ based applications.

Note : (i) The question paper will consist of Four units.

(ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.

(iii) The students are required to attempt **ONE** question from each unit and the compulsory question.

(iv) All questions carry equal marks unless specified.

UNIT – I

Programming Process: Steps in developing of a program, Data Flow Diagram, Decision Table, Algorithm development, Flowchart, Pseudo Code, Testing and Debugging.

Fundamentals of C Languages: History of C, Character Set, Identifiers and Keywords, Constants, Types of C Constants, Rules for Constructing Integer, Real and character Constants, Variables, Data Types, rules for constructing variables.

UNIT – II

Operators and Expressions: C Instructions, Arithmetic operators, Relational operators, Logical operators, Assignment Operators, Type Conversion in Assignments, Hierarchy of Operations, Standard and Formatted Statements, Structure of a C program , Compilation and Execution.

Decision Control Structure: Decision making with IF-statement, IF-Else and Nested IF-Else, The else if Clause.

Loop Control Structure: While and do-while, for loop and Nested for loop,

Case Control Structure: Decision using switch, The goto statement.

UNIT – III

Functions: Library functions and user defined functions, Global and Local variables, Function Declaration, Calling and definition of function, Methods of parameter passing to functions, recursion, Storage Classes in C.

Arrays: Introduction, Array declaration, Accessing values in an array, Initializing values in an array, Single and Two Dimensional Arrays, Initializing a 2-Dimensional Array, Memory Map of a 2-Dimensional Array, Passing array elements to a function.

UNIT – IV

String Manipulation in C: Declaring and Initializing string variables, Reading and writing strings, String Handling functions (strlen(), strcpy(), strcmp(), strcat()).

Structures and Unions: Declaration of structures, Structure Initialization, Accessing structure members, Union, Difference between Structure and Union .

Suggested Readings :

Essential :

1. Yashavant P. Kanetkar : Let us C, BPB Publications, New Delhi.

Further Reading :

2. Salaria, R.S. : Test Your Skills in C, Salaria Publications, New Delhi.
3. C. Balaguruswami : Programming with C Language, Tata McGraw Hill, New Delhi.
4. Byron S. Gottfried : Programming in C, McGraw Hills Publishers, New York.
5. M.T. Somashekara : Programming in C, Prentice Hall of India.

Paper – PCS02 : Practical : Practical Based on Paper CS04.



PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)
(Estd. under the Panjab University Act VII of 1947—enacted by the Govt. of India)

SYLLABI

FOR

**B.A. & B.Sc. (GENERAL) SECOND YEAR
(SEMESTER SYSTEM)
EXAMINATIONS, 2020-2021**

(SEMESTER : THIRD AND FOURTH)

i.e

Third Semester : *November/December, 2020*
Fourth Semester : *April/May, 2021*

--:*:--

PHYSICAL EDUCATION

B.A. (GENERAL) THIRD SEMESTER EXAMINATION, 2020-2021

| | |
|---------------------|------------|
| Max. Marks | : 65 |
| Theory | : 60 marks |
| Internal Assessment | : 05 marks |
| Time | : 3 Hrs. |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS :

- (i) There shall be nine questions in all, spread over five units.
- (ii) First question/unit is compulsory. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks.
- (iii) Rest of the paper shall contain four units for descriptive questions. Each unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each unit.
- (iv) All questions/units will carry equal marks.
- (v) Private candidates and the students of the University School of Open Learning (USOL) will not be allowed to take this subject.

UNIT-I

12 Marks

Entire syllabus given in the Units II to V will be covered to set six short answer type questions in first question/unit of the question paper which is compulsory.

UNIT-II

12 Marks

Psychological Basis of Physical Education :

- Meaning of Psychology and Sports Psychology.
- Psychological factors effecting physical performance.
- Meaning of Learning.
- Laws of Learning.
- Learning curve, its types, characteristics and implications in Physical Education and Sports.
- Psychological characteristics and problems of an adolescent.
- The role of Physical Education and Sports in solving the problems of an adolescent.

UNIT-III

12 Marks

Motivation:

- Meaning, definitions, types and methods of motivation.

- Importance of motivation in Physical Education and Sports.

Transfer of Training:

- Meaning, definitions, types and factors affecting transfer of training.

UNIT-IV

12 Marks

Personality:

- Meaning, definitions, characteristics, dimensions and traits of personality.
- Factors affecting development of personality (Heredity and Environment).
- Role of physical activities in Personality Development.

Sports and Socialization:

- Meaning and definitions of socialization, socialization through sports.

UNIT-V

12 Marks

Politics, Economy, Media and Sports Performance :

- Role of politics and economy in the promotion of games and sports.
- Role of media in promotion of sports.
- Causes of deterioration and suggestions for the improvement of Sports Performance.

Softball:

- History of the game.
- Basic fundamentals.
- Equipment and specifications.
- Marking/layout of field.
- Rules and regulations (number of players, number of officials required and general rules of play).
- Major tournaments of the game.

References :

1. Blair Jones & Simpson : "*Educational Psychology* ", The MacMillan Co., New York, 1962.
2. Brown, R. : "*Social Psychology*", Free Press, New York, 1965.
3. Bucher, Charles A. : "*Foundations of Physical Education*", St. Louis, 1979, The C.V. Mosby Company.
4. Conger, J.J.: "*Adolescence and Youth : Psychological Development in a Changing World,*" 22nd Edition, 1977, Harper and Row, New York.

5. Cratty, B.J.: "*Psychology and Physical Activity*", Englewood Cliffs, N.J., Prentice Hall, 1968
6. Hollander, E.P.: "*Principles and Methods of Social Psychology*", New York, 1971, Oxford University Press.
7. Linsa, M.I., "*Child-Adults, Peers : Patterns Communication*", Progress Publishers, Moscow, 1985.
8. Linggren, H.E.: "*Educational Psychology in the Class Room*", John Wiley & Sons, New York, 1962.
9. Loy, John W. and Kenyon Gerald, S. : "*Sport, Cultural and Society : A Reader on the Sociology of Sport*", London, 1969, The MacMillan Co.
10. Hurlock, E.B. : "*Adolescent Development*", Appleton Century Crofts, New York, 1956.
11. Rushall, Brent S. and Siedentop : "*The Development and Control of Behaviour in Sport and Physical Daryl Education*", Philadelphia, 1972, Lea and Febiger.
12. Shaphard, R.J. : "*The Fit Athlete*", Oxford University Press, 1978.
13. Singh, Ajmer et. al. : "*Modern Text Books of Physical Education, Health and Sports*", Kalyani Publishers, Ludhiana, 2000.
14. Talamini, John T. and Page & Charles, H. : "*Sport & Society – An Anthology*", Boston, 1973, Little Brown Co.
15. Walia, J.S. : "*Foundations of Educational Psychology*", Paul Publishers, Jalandhar City, 1992.
16. Wilmore, Jack H. : "*Athletic Training and Physical Fitness*", 1977, Allyn and Bacon, Inc., 470, Atlantic Avenue, Boston, Massachusetts.

PRACTICAL

Max.Marks : 35

Practical : 30

Internal assessment: 5

ATHLETICS

- a) History of athletics
- b) List of track and field events
- c) Marking of standard track, width of lanes and starting points for various races.

LONG JUMP:

- (a) Approach run (b) Take off (c) Flight (d) Landing (e) Brief information of various styles and practice of any one style depending upon the facilities available (f) Rules and regulations of the long jump.

PHYSICAL FITNESS TESTS:

More emphasis shall be given on physical fitness with regard to specific physical fitness components (Endurance and Strength).

Test 1 : ENDURANCE : 9/12 min. run and walk test.

Test 2 : STRENGTH : Standing broad jump test.

Division of Practical Marks: Marks for each activity shall be divided as under:

Athletics 10 Marks, Participation and achievement in sports/games 5 marks, Physical fitness 5 marks, viva voce/ practical file 10 marks and internal assessment 5 marks based on overall performance of a student during the current semester which will be assessed by the teacher concerned.

- Note :*
1. Polevault, Hammer Throw Hurdles, Relay Races and steeple chase men are not included in the practical syllabus/course due to the fact that these events are highly technical. Moreover in the absence of proper facilities required for the events mentioned above may prove to be injurious /fatal to the students.
 2. 12 periods per week (6 periods each for theory and practical) shall be allotted to a class.
 3. The theory and practical class shall consist of 60-80 students and 30-40 students respectively.
 4. The theory and practical papers shall consist of 65 and 35 marks each.
 5. As per the Panjab University Calendar, Chapter XIX (Page 324) Volume III, 1990, the maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass Course is 24 periods per week, which includes theory as well as practical.
 6. The choice of games by the students shall be confined to games approved by the Association of Indian Universities.
 7. A student is required to prepare a practical notebook on athletics with complete marking of standard track and starting points for various races and an event (long jump) mentioned in the syllabus.

Mandatory Instructions for the Colleges:

1. Admission Criteria:

- (i) Any student opting to have Physical Education as an Elective Subject irrespective of the background of the students (sports or non-sports students) must appear in the physical fitness test. Ranking should be prepared and the top 60-80 students should be offered this subject.
- (ii) This subject should be offered to the normal students (not to disabled one).
- (iii) To measure Physical Fitness through Cardiovascular Fitness Test, Cooper's 9 Minutes or 12 Minutes Run-Walk Test should be conducted.
- (iv) The date of Physical Fitness Test must be mentioned in the prospectus of the College.

2. Periodical Physical Inspections :

The University/Authorities with the collaboration of the Department of Physical Education, Panjab University, shall make Periodical Physical inspections of the various colleges to ensure that the teacher student ratio is maintained by all the affiliated colleges for this subject **as per the University Guidelines**, and for them to ensure that infrastructure (facilities), equipment, books/professional journals and groundmen, a game boy are provided as per the requirements of the subject and directions of the Panjab University, Chandigarh.

3. Strength of Students :

For imparting effective teaching, the strength of students in a theory class shall be between 60-80 while it shall be 30-40 students in practical class.

4. Infrastructure/facilities and Supporting personnel:

For the introduction/to continue with this subject, a college must fulfil the following mandatory requirements:

- (i) A track atleast of 200 mtrs., it should, however, preferable be raised to 400 mtrs. track.
- (ii) Bare minimum two Malies-cum-Groundmen for maintenance of the grounds and other infrastructure facilities etc.
- (iii) A game boy to supply the sports equipments and water to the students/ teachers on the ground/playfield/arena.
- (iv) A store-keeper for the proper maintenance/accountability of sports equipments in the stores.

5. Number of Periods :

The number of periods for theory and practical shall be 12 periods per week (6 periods each for theory and practical) for classes i.e. B.A. First to sixth semester.

Practical period shall be projected in the college time table itself.

6. Teaching Work Load :

- (i) As per the Panjab University Calendar Chapter XX (Page 298) Volume-III, 1996, the Maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass course is 24 periods per week which includes theory as well as practical.
- (ii) Teachers who are preparing 6 teams for the Panjab University Inter College Competition, their work load shall be counted by including six periods per week in the teaching load of concerned teachers in Physical Education.

7. Division of Marks (Theory and Practical) :

65% and 35% weightage shall be given to each theory and practical papers.

**Note : STRICT ACTION SHALL BE TAKEN BY THE UNIVERSITY AGAINST THE COLLEGE(S)
WHICH VIOLATES THE ABOVE INSTRUCTIONS.**

PHYSICAL EDUCATION**B.A. (GENERAL) FOURTH SEMESTER EXAMINATION, 2020-2021**

| | | |
|---------------------|---|----------|
| Max. Marks | : | 65 |
| Theory | : | 60 marks |
| Internal Assessment | : | 05 marks |
| Time | : | 3 Hrs. |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS :

- (i) There shall be nine questions in all, spread over five units.
- (ii) First question/unit is compulsory. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks.
- (iii) Rest of the paper shall contain four units for descriptive questions. Each unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each unit.
- (iv) All questions/units will carry equal marks.
- (v) Private candidates and the students of the University School of Open Learning (USOL) will not be allowed to take this subject.

UNIT-I

12 Marks

Entire syllabus given in the Units II to V will be covered to set six short answer type questions in first question/unit of the question paper which is compulsory.

UNIT-II

12 Marks

Respiratory System :

- Meaning of Respiration, types of Respiration, Organs of the Respiratory System.
- Functions of the Respiratory System. Vital capacity and its measurement.
- Mechanism and Neural Control of Respiration.

Digestive System :

- Meaning, Importance and Organs of Digestive System.
- Functions, processes, mechanism and nerve regulators of Digestive System.

UNIT-III

12 Marks

Circulatory System :

- Meaning of the circulatory system.
- Heart, its structure, functions and control of the heart rate.
- Various types of blood vessels and their functions.
- Cardiac Cycle.

Blood :

- Meaning, functions and composition of blood.
- Maintenance of blood supply.
- Blood groups and their importance.
- Blood Clotting.

UNIT-IV

12 Marks

Communicable Diseases :

Meaning of a communicable disease. Communicable diseases such as HIV/AIDS, Viral Hepatitis—A, B & C and Tetanus, their modes of transmission and methods of prevention.

Yoga:

- Meaning and aim of Yoga.
- Meaning, Principles and Importance of Asanas.
- Meditative poses (Padamasna, Vajrasana, and Sukhasana), their technique, precautions and effects/advantages.
- Cultural poses (Savasna, Halasana, Bhujangasana Sarvangasana, and Dhanurasana), their technique, precautions and effects/advantages.

Basics of Tennis :

- History of the game.
- Basic fundamentals.
- Equipment and specifications.
- Marking / layout of court.
- Rules and regulations (number of players, duration of game, number of officials required and general rules of play).
- Major tournaments and Arjuna awardees of the game.

UNIT-V

12 Marks

Sports Injuries :

- Basis of Sports Injuries.
- Common Sports Injuries, such as sprains, strains, fracture, dislocation, abrasions, contusion, bruise, tennis elbow. Their causes, preventive and remedial measures.
- Treatment and care (RICE) of sports injuries.

Disability and Rehabilitation :

- Meaning, types, causes and preventive measures of disability.
- Problems of the disabled. Physical Activity and health for disabled.
- Meaning and scope of Rehabilitation.

References :

1. Chaurasia, B.D. : *"Handbook of General Anatomy"*, CBS Publishers and Distributors, First Edition, 1981.
2. Dandiya, P.C., Jafer, Z.Y. K. and Jafer Afifa: *"Health Education and Community Pharmacy"*, Second Edition, 1996, Reprinted in 1998, Vallabh Prakashan, Pitampura, New Delhi.
3. Govt. of India : *"Occupational Diseases : A Guide to Recognition and Notification"*, Chief Adviser Factories, Ministry of Labour and Employment, New Delhi, 1955.
4. Park, J.E. & Park, K. : *"Text Book of Preventive and Social Medicine"*, 10th Edition, 1985, Banarsi Dass Bhanot, Jabalpur, India.
5. Parrot, J.W. : *"Anatomy and Physiology for Physical Education Assistant Professors"*, Lend : Edward Arnold Ltd., 1983.
6. Rao, M.N. and Lundgren, N.P.V. : *"A Review of Occupational Health Research in India"*, ICMR, New Delhi, 1955.
7. Rose & Wilson : *"Foundations of Anatomy and Physiology"*, 5th Edition, 1981, Reprinted in 1985.
8. Winter Griffith, H. : *"Complete Guide to Sports Injuries"*, First Indian Edition, 1989, Metropolitan Book Co. Pvt. Ltd., New Delhi.
9. Sampath, K. & Uma Maheshwar, B. : *"Human Anatomy & Physiology"*, First Edition, 1999- 2000, Birla Publications, Delhi.
10. Singh, Ajmer et. al. : *"Modern Text Book of Physical Education, Health and Sports"*, Kalyani Publishers, Ludhiana, 2000.
11. Smith, Olive and F. Guthrie : *"Rehabilitation and Remedial Exercise"*, Bailliere, Tindall and Cox Limited, London, 1949.
12. Sri Anand : *"The Complete Book of Yoga : Harmony of Body and Minds"*, Orient Paper Back, New Delhi, 1980.
13. Staford, T. & Ellen Davis Kelly : *"Preventive and Corrective Physical Education"*, Third Edition, 1958, Ronald Press Co., New York.
14. Swami Kuvalyananda : *"Kaivalyadhama"*, Lonavala, Bombay, 1933.
15. Vijayendra Pratap : *"A Teacher's Guide for Beginning Yoga"*, First Edition, 1987, Sky Foundations, Philadelphia, Pennsylvania, U.S.A.
16. World Health Organisation : *"Health Hazards of the Human Environment"*, Geneva, 1962.

PRACTICAL

| | |
|----------------------------|------|
| Max. Marks | : 35 |
| Practical | : 30 |
| Internal Assessment | : 05 |

GAMES

Basketball or Ball badminton and any other one game of the choice of the student.

Basketball

- (a) Measurements (Basket ball ground).
- (b) Number of players and officials.
- (c) Rules and Regulations of the game.
- (d) Fundamental and basic skills.

Football

- (a) Measurements (Field & ball).
- (b) Number of players and officials.
- (c) Rules and Regulations of the game.
- (d) Fundamental Skills.

Division of Practical Marks: Marks for each activity shall be divided as under:

Game 10 marks, participation and achievement in sports/games 5 marks, Physical fitness 5 marks, viva voce/practical file 10 marks and internal assessment 5 marks based on overall performance of a student during the current semester which will be assessed by the teacher concerned.

Note:

1. 12 periods per week (6 periods each for theory and practical) shall be allotted to a class.
2. The theory and practical class shall consist of 60-80 students and 30-40 students respectively.
3. The theory and practical papers shall consist of 65 and 35 marks each.
4. As per the Panjab University Calendar, Chapter XIX (Page 324) Volume III, 1990, the maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass Course is 24 periods per week, which includes theory as well as practical.
5. The choice of games by the students shall be confined to games approved by the Association of Indian Universities.
6. A student is required to prepare a practical notebook of a game given in the syllabus and any one game of choice.

Mandatory Instructions for the Colleges:**1. Admission Criteria:**

- (i) Any student opting to have Physical Education as an Elective Subject irrespective of the background of the students (sports or non-sports students) must appear in the physical fitness test. Ranking should be prepared and the top 60-80 students should be offered this subject.
- (ii) This subject should be offered to the normal students (not to disabled one).
- (iii) To measure Physical Fitness through Cardiovascular Fitness Test, Cooper's 9 Minutes or 12 Minutes Run-Walk Test should be conducted.
- (iv) The date of Physical Fitness Test must be mentioned in the prospectus of the College.

2. Periodical Physical Inspections :

The University/Authorities with the collaboration of the Department of Physical Education, Panjab University, shall make Periodical Physical inspections of the various colleges to ensure that the teacher student ratio is maintained by all the affiliated colleges for this subject **as per the University Guidelines**, and for them to ensure that infrastructure (facilities), equipment, books/professional journals and groundmen, a game boy are provided as per the requirements of the subject and directions of the Panjab University, Chandigarh.

3. Strength of Students:

For imparting effective teaching, the strength of students in a theory class shall be between 60-80 while it shall be 30-40 students in practical class.

4. Infrastructure/facilities and Supporting personnel:

For the introduction/to continue with this subject, a college must fulfil the following mandatory requirements such as:

- (i) A track atleast of 200 mtrs., it should, however, preferable be raised to 400 mtrs. track.
- (ii) Bare minimum two Malies-cum-Groundmen for maintenance of the grounds and other infrastructure facilities etc.
- (iii) A game boy to supply the sports equipments and water to the students/ Assistant Professors on the ground/playfield/arena.
- (iv) A store-keeper for the proper maintenance/accountability of sports equipments in the stores.

5. Number of Periods:

The number of periods for theory and practical shall be 12 periods per week (6 periods each for theory and practical) for classes i.e. B.A. First to sixth semester.

Practical period shall be projected in the college time table itself.

6. Teaching Work Load:

- (i) As per the Panjab University Calendar Chapter XX (Page 298) Volume-III, 1996, the maximum teaching work load for a Assistant Professor in Physical Education for B.A. Pass course is 24 periods per week which includes theory as well as practical.
- (ii) Teachers who are preparing 6 teams for the Panjab University Inter College Competition, their work load shall be counted by including six periods per week in the teaching load of concerned teacher in Physical Education.

7. Division of Marks (Theory and Practical):

65% and 35% weightage shall be given to each theory and practical papers.

Note : STRICT ACTION SHALL BE TAKEN BY THE UNIVERSITY AGAINST THE COLLEGE(S) WHICH VIOLATES THE ABOVE INSTRUCTIONS.

MUSIC (Instrumental)
B.A. (GENERAL) SECOND YEAR EXAMINATION, 2020-2021
SEMESTER-III

General Instructions

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be up to ten students in one section in practical class.
3. **There should not be more than ten students in a batch for practical examination.**
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting at least one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent for dealing branch.**
8. The candidate can take vocal music or Tabla along with instrumental music.

Paper A : THEORY (3 Hours duration) : 45 marks

(Duration 45 minutes 06 practical + 02 Theory periods per week)

Paper-B: PRACTICAL (20 minutes duration) : 45 marks

| | | |
|----------------|---|----------|
| (i) Viva | : | 35 marks |
| (ii) Harmonium | : | 05 marks |
| (iii) Tabla | : | 05 marks |

Internal Assessment (Theory + Practical) (05 +05) : 10 marks

Total : 100 marks

PAPER-A: THEORY (Duration 45 minutes, 02 Theory periods per week)

Unit-I

- 1 Brief knowledge of Gram.
- 2 Gun and Dosh of Vadak.
- 3 Historical development of North Indian Music from 13th to 15th Century

Unit-II

1. Gharana of Instrumental Music (definition and importance)
2. Importance of Alap, and its various forms.
3. Knowledge of Avirbhav and Tirobhav, Alaptav- Bahutav

Unit-III

1. Brief life sketches of the great masters of Music and their contributions.
 - (i) Ustad Inayat Khan
 - (ii) Ustad Allaudin Khan
 - (iii) Pt. Vishnu Digambar Paluskar

Unit-IV

Description and Notation of the prescribed Ragas of Syllabus: -

1. To write one Razakhans/Drut Gat (in any prescribed raga of your course with Toras)
2. Description and notation of Raga:- Bihag, Bhimplasi with toda
3. Notation of Ektal and Rupak tala with dugun layakaries
4. Non detailed Ragas: Maru-Bihag, Patdeep

NOTE: - Both the questions from this part must contain one notation of Raga alongwith the notation of Talas/ description of Ragas.

Unit-V

1. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of carry 01 marks each.**

PAPER-B PRACTICAL (Duration 45 Minutes, 06 practical periods per week)

1. One Razakhani (Drut) Gat in each of the following Ragas with Todas and Jhalas :
Bihag, Bhimplasi
2. Knowledge of the following Non-detailed Raga: Ability to sing Aroh, Avroh and Pakad : Maru
Bihag, Patdeep
3. Use of one swara meend and kan.
4. Ability to play Teevra on Tabla
5. Ability to sing three alankras of Shudh swaras with the help of harmonium.
6. Ability to demonstrate the following talas by hands in Ekgun and Dugun Layakaries: Ektala, Rupak & Teevra

Books Recommended:

1. *Sangeet Visharad* : Sangeet Karyalaya, Hathras (U.P.).
2. *Rag Parichaya Part II* : H.C. Srivastav, Sangeet Sadan Prakashan, 134, South Malaka, Allahabad.
3. *Sangeet Kaumudi Part IV (Punjabi)* : S.S. Kareer, published by Punjabi University, Patiala.
4. *Hamare Sangeet Ratna* : Sangeet Karyalaya, Hathras (U.P.).
5. *Sangeet Sar Part II* : Mrs. Veena Mankaran, Raj Publishers (Regd.) Adda Tanda, Jalandhar City.
6. *Kramik Pustak Malika Part I to IV* : Pt. V.N. Bhatkhande, Sangeet Karyalaya, Hathras.
7. *Rag–Vigyan Part I to VII* : Pt. V. Patwardhan.
8. *Sangeet Shastra Vigyan* : Panna Lal Madan
9. *Sangeet Kala ka Itihas* : Panna Lal Madan

MUSIC (Instrumental)
B.A. (GENERAL) SECOND YEAR EXAMINATION, 2020-2021
SEMESTER-IV

General Instructions:-

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be up to ten students in one section in practical class.
3. There should not be more than ten students in a batch for practical examination.
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting at least one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent.**
8. The candidate can take vocal music or Tabla along with instrumental music.

Paper-A: THEORY (3 Hours duration) : 45 marks
(Duration 45 minutes 06 practical+ 02 Theory periods per week)

Paper-B: PRACTICAL (20 minutes duration) : 45 marks

(i) Viva : 35 marks
(ii) Harmonium : 05 marks
(iii) Tabla : 05 marks

Internal Assessment (Theory + Practical) (05 +05) : 10 marks

Total : 100 marks

PAPER-A: THEORY (Duration 45 minutes, 02 Theory periods per week)

Unit-I

1. Historical developments in North Indian Music during 15th to 17th Century.
2. Brief knowledge of Murchhana system
3. Classification of Indian Musical Instruments

Unit-II

1. A Study of Shuddh, Chhaya Lag and Sankiran & Parmel Praveshak Ragas
2. Time theory of Indian Ragas
3. Definitions and explanations of the musical terms (not more than 100 words):-
Kampan, Meend, Ghaseet, Zamzama, Krintan

Unit-III

1. Brief life sketches of great masters of music and their contributions:
 - i) Ustad Vilayat Khan
 - ii) Ustad Abdul Halim Zafar Khan
 - iii) Smt. Annapurna Devi Ji

Unit-IV

Description and Notation of the prescribed Raga of syllabus :-

- i) To write one Maseetkhani Gat (in any prescribed raga of your course.
- ii) To write the notation of Razakhani/Drut Gat of with Toras: Raga Madhuwanti, Hamir
- iii) To write the notation of Sultal and Dhamar with dugun
- iv) Non-detailed Ragas: Multani, Chhayanaat

NOTE: - Both the questions from this part must contain one notation of Raga alongwith the notation of Talas/ description of Ragas.

Unit-V

1. The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of carrying 01 marks each.

PAPER-B PRACTICAL (Duration 45 Minutes, 06 practical periods per week)

1. One Maseetkhani Gat in any raga from your course
2. One Razakhani/ Drut Gat in each of the following Ragas with Todas and Jhalas:- Hamir, Madhuwanti.
3. One Madhya laya gat with alap and todas in any prescribed raga other than teentala.
4. Knowledge of the following Non-detailed Raga: Aroh, Avroh and Pakad : Multani, Chhayanaat
5. Use of two swara meend and kan.
6. Ability to play Jhaptala on Tabla
7. Ability to sing three alankars of komal and teevra swaras with the help of harmonium.
8. Ability to demonstrate the following talas by hands in Ekgun and Dugun Layakarries: Dhamar & Sultaal.

Books Recommended:

1. *Sangeet Visharad* : Sangeet Karyalaya, Hathras (U.P.).
2. *Rag Parichaya Part II* : H.C. Srivastav, Sangeet Sadan Prakashan, 134, South Malaka, Allahabad.
3. *Sangeet Kaumudi Part IV (Punjabi)* : S.S. Kareer, published by Punjabi University, Patiala.
4. *Hamare Sangeet Ratna* : Sangeet Karyalaya, Hathras (U.P.).
5. *Sangeet Sar Part II* : Mrs. Veena Mankaran, Raj Publishers (Regd.) Adda Tanda, Jalandhar City.
6. *Kramik Pustak Malika Part I to IV* : Pt. V.N. Bhatkhande, Sangeet Karyalaya, Hathras.
7. *Rag–Vigyan Part I to VII* : Pt. V. Patwardhan.
8. *Sangeet Shastra Vigyan* : Panna Lal Madan
9. *Sangeet Kala ka Itihas* : Panna Lal Madan

FINE ARTS**B.A. (GENERAL) SECOND YEAR EXAMINATION, 2020-2021****SEMESTER-III****Paper A : Theory (History of Art)****Max. Marks : 54****Time : 3 Hours****Objectives :**

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject matter of these works.

INSTRUCTIONS FOR PAPER SETTER AND CANDIDATES:

1. The paper carries **54** marks.
2. The paper-setter is required to **set 9 questions in all**. The candidate is to **attempt 5 questions** as per the instructions given in the question paper.
3. The **first question** shall be of short answer type **containing 12 questions** spread over the whole syllabus. Students are required to **attempt 9 questions**. Each question is to be answered in about 25-30 words. It shall **carry 18 marks** and shall be a **Compulsory** question.
4. **8 questions** are to be set from the entire syllabus consisting of **4 units**. Two questions will be set from each unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each unit. So in all, the candidate shall **attempt 4 questions** in all out of 8 questions. Each question would be of **9 marks**.

Unit-I : History of Indian Painting

- Western Indian Minitaure Painting -- Decorative Designs and Paintings of the 1439 Kalpasutra Manuscript.
- Pre Mughal Paingting -- Chaurapanchashika and Nimat Nama Manuscript Paintings

Unit-II : History of Indian Sculpture

- Gandhara –Fasting Buddha and Mahaparinirvana of Buddha
- Mathura –Portraits of the Kushana Kings.
- Sarnath –Seated Buddha.
- Sultanganj –Bronze Buddha.

Unit-III : History of Western Art

- Early Renaissance : Masaccio-Expulsion; Holy Trinity.
- High Renaissance: Leonardo Da Vinci – Last Supper; Michelangelo—Creation of Adam from the Sistine ceiling; Pieta.
- Northern Renaissance : Durer – Knight, Death and the Devil.

Unit-IV : Definition of Key Terms and General Concepts

- Composition – Volume, Texture, Space, Unity, Harmony, Rhythm, Proportion.
- Six Limbs of Indian Painting.

Pedagogy : The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitions and art galleries are a part of study.

Suggested Readings :

1. Kramrisch, Stella : Survey of Painting in the Deccan, Oriental Books Corporation, New Delhi, 1983.
2. Majumdar, R.C. (editor) : The History and Culture of Indian People, Vol. I, II and III (Sculpture and Painting Sections only) Bhartiya Vidya Bhawan Bombay, 1996, 1990, 1988.
3. Rowland, Benjamin : The Art and Architecture of India, Penguin Books, Great Britain, 1959.
4. Saraswati, S.K. : A Survey of Indian Sculpture, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
5. Ray, N.R. : An Approach to Indian Art, Publication Bureau, Panjab University, Chandigarh, 1974.
6. Barrett, D. and Gray, B. : Painting of India, The World Publishing Co., Ohio, 1963.
7. Brown, Percy : Indian Painting under the Mughals, Cosmo Publications, New Delhi, 1981.
8. Aggarwala, V.S. : Heritage of Indian Art, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
9. Aggarwala, V.S. : Indian Art (English), Varanasi, 1965.
10. Aggarwala, V.S. : Bhartiya Kala (Hindi), Prithvi Prakashan, 1977.
11. Read, Herbert : Meaning of Art, Faber & Faber, London, 1972.
12. Janson, H.W. : History of Art, Thames & Hudson, London, 2001.
13. Gardener, Helen : Art Through the Ages, Harcourt Brace & Co., U.S.A., 1991.
14. Gombrich, E.H. : The Story of Art, Phaidon Press Limited, New York, 1995.
15. Arnason, H.H. : A History of Modern Art, Thames & Hudson, London, 1988.

Paper-B : PRACTICAL

This paper consists of **three sections** :

| | <i>Max. Marks</i> | <i>Max. Time</i> |
|---|-------------------|------------------|
| 1. Landscape Painting (on the spot) | 30 | 5 hours |
| 2. Life Sketching | 30 | 5 hours |
| 3. Poster & Book Cover Design or Clay Modelling | 30 | 5 hours |
| Total : 90 marks | | |

Note : The paper-setter is required to set papers in all three options in Section-3.

SECTION-I : LANDSCAPE PAINTING (on the spot)

LANDSCAPE PAINTING : To study relationships of objects, their arrangements in the foreground, middle distance and distance, texture, relative size of masses, tones and colours, use of linear and aerial perspective.

Medium : Oil, Water or Pastel colours.

Size : ½ Imperial.

SECTION-II : LIFE SKETCHING

LIFE SKETCHING : From live Model or Cast-Monochrome in any medium, ½ Imperial Sheet.

Emphasis should be on structure, proportion, foreshortening, textural values, posture and individuality of the model.

SECTION-III : POSTER & BOOK COVER DESIGN OR CLAY MODELLING**POSTER :**

Commercial and advertising designing.
Understanding of Colour harmony and contrast.
Imparting understanding of Printing purposes.

BOOK COVER DESIGN :

Concept of Lettering : Block lettering, Roman lettering, Script lettering and free hand brush lettering.
To design book cover with illustration and title, author's name etc. in three colours (excluding the background colour)

Medium : Pen & Ink, Poster Colours.

Size : 25 cms. × 20 cms.

OR

CLAY MODELLING :

To render animal or human forms in clay in relief. Minimum number of three forms to be composed. Size of slab minimum 30 cms × 25 cms. Creative Pottery—Creative Pot making in clay—any size.

SESSIONAL MARKS : 50 (based on work related equally to 3 sections).

Sessional Marks will be given on the basis of the work done during the session, in all the 3 sections. At least three works will be submitted in each section. Sessional marks shall be given by external and internal examiners jointly. In case of difference of opinion, marking may be done separately by each examiner giving marks out of 50 % of the aggregate of the Sessional Marks.

- NOTE :**
1. Choice of option to be offered would depend on the facility available in each Institution concerned.
 2. Minimum of 9 hours' teaching per week be assigned to the subjects and out of nine hours, six hours be earmarked for practical classes and three hours for theory classes (per week).

FINE ARTS**SEMESTER-IV****Paper A : Theory (History of Art)****Max. Marks : 54****Time : 3 Hours****Objectives :**

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject matter of these works.

INSTRUCTIONS FOR PAPER SETTER AND CANDIDATES:

1. The paper carries **54** marks.
2. The paper-setter is required to **set 9 questions in all**. The candidate is to **attempt 5 questions** as per the instructions given in the question paper.
3. The **first question** shall be of short answer type **containing 12 questions** spread over the whole syllabus. Students are required to **attempt 9 questions**. Each question is to be answered in about 25-30 words. It shall **carry 18 marks** and shall be a **Compulsory** question.
4. **8 questions** are to be set from the entire syllabus consisting of **4 units**. Two questions will be set from each unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each unit. So in all, the candidate shall **attempt 4 questions** in all out of 8 questions. Each question would be of **9 marks**.

Unit-I : History of Indian Painting

- Mughal Paintings of Hamza-Nama ; South Kensington Akbar Nama ; Jahangiri Portraits and illustrations of birds and animals.
- Deccani Paintings –Tarif-i-Hussain-Shahi from Ahmednagar ; Najam-ul-Ulum from Bijapur.

Unit-II : History of Indian Sculpture

- Deogarh –Vishnu Anantashayana.
- Ellora—Ravana Shaking Mount Kailasha.
- Mahabalipuram –Descent of Ganges (Kirtarjunyam panel).

Unit-III : History of Western Art

- Baroque : Rubens –Garden of Love.
- Neo-Classicism and Romanticism : David –The Death of Socrates; Constable-The Haywain.
- Realism : Courbet –Artist's Studio.

Unit-IV : Definition of Key Terms and General Concepts

- Art and Craft ; Design ; Mosaic ; Tribal Art ; Folk Art ; Piece-mould ; Waste-mould.

Pedagogy : The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitions and art galleries are a part of study.

Suggested Readings :

1. Kramrisch, Stella : Survey of Painting in the Deccan, Oriental Books Corporation, New Delhi, 1983.
2. Majumdar, R.C. (editor) : The History and Culture of Indian People, Vol. I, II and III (Sculpture and Painting Sections only) Bhartiya Vidya Bhawan Bombay, 1996, 1990, 1988.
3. Rowland, Benjamin : The Art and Architecture of India, Penguin Books, Great Britain, 1959.
4. Saraswati, S.K. : A Survey of Indian Sculpture, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
5. Ray, N.R. : An Approach to Indian Art, Publication Bureau, Panjab University, Chandigarh, 1974.
6. Barrett, D. and Gray, B. : Painting of India, The World Publishing Co., Ohio, 1963.
7. Brown, Percy : Indian Painting under the Mughals, Cosmo Publications, New Delhi, 1981.
8. Aggarwala, V.S. : Heritage of Indian Art, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
9. Aggarwala, V.S. : Indian Art (English), Varanasi, 1965.
10. Aggarwala, V.S. : Bhartiya Kala (Hindi), Prithvi Prakashan, 1977.
11. Read, Herbert : Meaning of Art, Faber & Faber, London, 1972.
12. Janson, H.W. : History of Art, Thames & Hudson, London, 2001.
13. Gardner, Helen : Art Through the Ages, Harcourt Brace & Co., U.S.A., 1991.
14. Gombrich, E.H. : The Story of Art, Phaidon Press Limited, New York, 1995.
15. Arnason, H.H. : A History of Modern Art, Thames & Hudson, London, 1988.

Paper-B : PRACTICAL

This paper consists of **three sections :**

| | <i>Max. Marks</i> | <i>Max. Time</i> |
|---|-------------------|------------------|
| 1. Landscape Painting (on the spot) | 30 | 5 hours |
| 2. Life Sketching | 30 | 5 hours |
| 3. Poster & Book Cover Design or Clay Modelling | 30 | 5 hours |
| Total : 90 marks | | |

Note : The paper-setter is required to set papers in all three options in Section-3.

SECTION-I : LANDSCAPE PAINTING (on the spot)

LANDSCAPE PAINTING : To study relationships of objects, their arrangements in the foreground, middle distance and distance, texture, relative size of masses, tones and colours, use of linear and aerial perspective.

Medium : Oil, Water or Pastel colours.

Size : ½ Imperial.

SECTION-II : LIFE SKETCHING

LIFE SKETCHING : From live Model or Cast-Monochrome in any medium, ½ Imperial Sheet.

Emphasis should be on structure, proportion, foreshortening, textural values, posture and individuality of the model.

SECTION-III : POSTER & BOOK COVER DESIGN OR CLAY MODELLING**POSTER :**

Commercial and advertising designing.
Understanding of Colour harmony and contrast.
Imparting understanding of Printing purposes.

BOOK COVER DESIGN :

Concept of Lettering : Block lettering, Roman lettering, Script lettering and free hand brush lettering.
To design book cover with illustration and title, author's name etc. in three colours (excluding the background colour)

Medium : Pen & Ink, Poster Colours.

Size : 25 cms. × 20 cms.

OR

CLAY MODELLING :

To render animal or human forms in clay in relief. Minimum number of three forms to be composed. Size of slab minimum 30 cms × 25 cms. Creative Pottery—Creative Pot making in clay—any size.

SESSIONAL MARKS : 50 (based on work related equally to 3 sections).

Sessional Marks will be given on the basis of the work done during the session, in all the 3 sections. At least three works will be submitted in each section. Sessional marks shall be given by external and internal examiners jointly. In case of difference of opinion, marking may be done separately by each examiner giving marks out of 50 % of the aggregate of the Sessional Marks.

- NOTE :**
1. Choice of option to be offered would depend on the facility available in each Institution concerned.
 2. Minimum of 9 hours' teaching per week be assigned to the subjects and out of nine hours, six hours be earmarked for practical classes and three hours for theory classes (per week).

PSYCHOLOGY**B.A. (GENERAL) SECOND YEAR EXAMINATION, 2020-2021****SEMESTER-III****Objectives:**

- (I) The course introduces to the students the general concepts and historical viewpoints in experimental psychology. The students would also get an understanding of the Nervous System, Psychophysics, Learning. This course will also give an insight into psychophysics, statistics and cognitive aspects of Psychology.
- (II) Pedagogy of the Course Work :
80% Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

Paper: EXPERIMENTAL PSYCHOLOGY

| | |
|---------------------|------------|
| Max. Marks | : 80 |
| Theory | : 70 marks |
| Internal Assessment | : 10 marks |
| Time | : 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

There shall be **9** questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be **Compulsory** question. Rest of the paper shall contain **4** Units. Each Unit shall have **two** questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit – 4 in all. Each question will carry 14 marks.

Unit I

The Nervous System: Structure and functioning of the neuron; division of nervous system – Central Nervous System and Peripheral Nervous System; Structure and functioning of the brain.

Unit II**Sensation**

Concept and types; Vision-The Visual Stimulus, Structure and Functioning of the Eye , Theories of Colour Vision; Audition: The Auditory Stimulus, Structure and Functioning of the Ear, Theories of Hearing.

Unit III**Psychophysics**

Thresholds; Psychophysical Methods of Limits, Constant stimuli and Average Error.

Unit IV**Learning**

Concept, Classical Conditioning, Operant Conditioning, Observational Learning.

PSYCHOLOGY PRACTICALS

Max. Marks : 20

Time : 3 Hrs.

Four practicals have to be performed out of six :

1. Two Point Threshold
2. Muller Lyer Illusion
3. Differential Threshold
4. Method of Paired Comparison
5. Maze Learning
6. Bilateral Transfer of Training

Suggested Readings :

1. Baron, R.A. (2003): Psychology. New Delhi : Pearson Education.
2. Ciccarelli, D. (2008): Introduction to Psychology. Delhi: Pearson.
3. Das, J.P. (1998): The Working Mind: An Introduction to Psychology. New Delhi: Sage.
4. Feldman, R.S. (1998) : Understanding Psychology. New Delhi : Tata McGraw Hill.
5. Garrett, H.E. (1966) : Statistics in Psychology and Education. New Delhi : Vakils, Feffer and Simons.
6. Garrett, H.E. (1966) : Statistics in Psychology and Education. New Delhi : Vakils, Feffer and Simons.
7. Guilford, J.P. and Fruchter, B. (1981) : Fundamental Statistics in Psychology and Education. Singapore: McGraw Hill.
8. Kerlinger, F. N. (1964) : Foundations of Behavioural Research. New York: Rinehart and Winston.
9. Morgan, C.T., King, R.A., Weisz, J.R. and Schopler, J. (1987) : Introduction to Psychology. Singapore: McGraw Hill.

PSYCHOLOGY**SEMESTER-IV****Objectives:**

- (I) The course introduces to the students the general concepts and historical viewpoints in General Psychology. The students would also get an understanding of the principles and theories in different areas like Sensation, Perception and Thinking. The course also introduces the elementary statistics.
- (II) Pedagogy of the Course Work :
80% Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

Paper : EXPERIMENTAL PSYCHOLOGY

| | |
|---------------------|------------|
| Max. Marks | : 80 |
| Theory | : 70 marks |
| Internal Assessment | : 10 marks |
| Time | : 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

There shall be 9 questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be **Compulsory** question. Rest of the paper shall contain 4 Units. Each Unit shall have **two** questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit – 4 in all. Each question will carry 14 marks.

Unit I**Memory**

Sensory Register; Short-Term and Long -Term Memory; Levels of Processing; Measurement of Memory; Forgetting with special reference to retro-active and pro-active inhibition

Unit II

Perception: Concepts , Types of Perception of Form, Space and Movement
Attention: Nature, Types and Factors.

Unit III

Thinking : Nature, Tool & Types and Factors
Problem Solving: Nature , Stages and Factors.
Creativity: Concept; Torrance's Theory of Creativity.

Unit IV**Statistics**

Normal Probability Distribution: Properties and Applications: Hypothesis Testing – Type I and Type II Errors; Chi-square Test Application to one – way and Two-way classifications.

Note : The use of non-programmable calculators and statistical tables are allowed in the examination.

PSYCHOLOGY PRACTICALS**Max Marks : 20**
Time : 3 Hrs.

Four practicals have to be performed out of the following :

1. Division of Attention
2. Span of Attention
3. Comparing Recall and Recognition as Measures of Memory
4. Retroactive Interference
5. Concept Formation.

Suggested Readings:

1. Baron, R.A. (2003): *Psychology*, New Delhi : Pearson Education.
2. Ciccarelli, D. (2008): *Introduction to Psychology*, Delhi: Pearson.
3. Das , J.P. (1998):*The Working Mind: An Introduction to Psychology*, New Delhi: Sage.
4. Feldman, R.S. (1998) :*Understanding Psychology*, New Delhi: Tata McGraw Hill.
5. Garrett, H.E. (1966): *Statistics in Psychology and Education*, New Delhi Vakils, Feffer And Simons.
6. Guilford, J.P., and Fruchter, B. (1981):*Fundamental Statistics in Psychology and Education* Singapore: McGraw Hill.
7. Jain, S. (2000) : *Introduction to Psychology*, New Delhi: Kalyani
8. Kerlinger, F.N. (1964): *Foundations of Behavioural Research*, New York Holy, Rinehart and Wintson
9. Morgan, C.T., King, R.A., Weisz, J.R. and Schopler, J. (1987): *Introduction to Psychology*, Singapore: McGraw Hill

COMPUTER SCIENCE
SEMESTER-III

SCHEME OF EXAMINATION

| THIRD SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|----------------------|--------------------|---|---------------|-----------|-----------|---------------|
| Paper – CS05 | Theory-A | Computer Organization | 3 | 30 | 5 | 35 |
| Paper –CS06 | Theory-B | Object Oriented Programming using (C++) | 3 | 30 | 5 | 35 |
| Paper – PCS03 | Practical-C | Practical Based on Paper – CS06 | 3 | 30 | -- | 30 |

Note : Practical marks will include the appropriate weightage for proper maintenance of Lab. Record.

Paper-CS05 : Computer Organization

Objective : To teach the students the basics of computer organization, Microprocessor & basic know how about system maintenance.

- Note :*
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT - I

Representation of Information : Number system: Binary, Decimal, Hexadecimal, Octal; Conversions; integer and floating point representation, character codes (ASCII, EBCDIC), error detection and correction codes: Parity bit method, Hamming code; Boolean algebra.

UNIT – II

Basic Building Blocks : Combinatorial logic design : Gates, Half Adder, Full Adder, Encoder, Decoder, Multiplexer : Sequential Building Block : Flip-Flops, Registers, Counters: Synchronous and Asynchronous Counters, Bus.

Microinstructions : Register Transfer, Arithmetic, Logical and Shift Operations; Instruction : Instruction Format, Instruction Cycle; Interrupt: Interrupt types, Interrupt Cycle.

UNIT – III

Micrprocessor : Architecture of 8086/8088 Processor Model; Instruction Set; Addressing Modes: Registers used in Microprocessor.

Assembly Language : Features of Assembly Language, Machine Language vs Assembly Language, Pseudo Instruction; use of Assembly for programs: Addition, Subtraction, Multiplication using Subroutines and Basic Input/Output.

UNIT – IV

System Maintenance : Introduction to various physical components of a computer, Physical Inspection and Diagnostics on PC, types of displays and other peripheral devices, installing software; Functional description of various Internal and External cards; Viruses: Types of Computer Viruses, Detection of Viruses, Protection from Viruses.

Suggested Readings :**Essential :**

1. Mano, M.M. : *Computer System Architecture*, 3rd Ed., Dec., 1998, PHI.

Further Reading :

2. Tannenbaum, A.S. : *Structured Computer Organization*, 3rd Ed., Oct., 1993, PHI.
3. Gear, C.W. : *Computer Organisation and Programming*, McGraw Hill, 1975.
4. Langholz, G., Grancioni, J. & Kandel, A. : *Elements of Computer Organization*, Prentice Hall International, 1988.
5. Hayes : *Computer Architecture and Organization*, McGraw Hill, International Edition.
6. Sloan, M.E. : *Computer Hardware and Organization*, 2nd Edition, Galgotia Pvt. Ltd.

Paper-CS06 : Object Oriented Programming (using C++)

Objective : To teach the students the implementation of various object oriented programming concepts through C++ programming

- Note :**
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT – I

Basic Concepts of Object Oriented Programming(OOP) : Object, Class, Encapsulation, Data Hiding, Inheritance, Polymorphism. Analysis and design of system using Object Oriented Approach, Benefit of OOPs.

Structure of a C++ Program : Include files, Declaration of class, Main function, I/O streams.

Classes : Class Declaration : Data Members, Member Functions, Private and Public members, data hiding and encapsulation, arrays within a class.

Objects : Creating Objects, Accessing class data members, Accessing member functions, Methods of passing arguments to functions.

UNIT – II

Object Concepts: Arrays of Objects, Objects as function arguments: Pass by value, Pass by Reference, Pointers to Objects.

Functions in C++ : Member function definition inside the class declaration and outside the class declaration, scope resolution operator, Private and Public member function, Nesting of member functions, Static and Friend functions.

UNIT – III

Constructors and Destructors: Constructors: Declaration and Definition, Default Constructors, Parameterized Constructors, Copy Constructors. *Destructors:* Definition and use.

Inheritance – Extending Classes : Concept of inheritance, base class, derived class, defining derived classes, visibility modes, private, public, protected; single inheritance : privately derived, publicly derived; making a protected member inheritable, access control to private and protected members by member functions of a derived class, multilevel inheritance, nesting of classes.

UNIT – IV

Polymorphism : Definition, types, Function overloading, Operator Overloading, Virtual functions and pure virtual functions.

Suggested Readings :**Essential :**

1. Stroustrup : *The C ++ Programming Language, Addison Wesley.*
2. E. Balaguruswamy : *Object Oriented Programming with C++, TMH.*

Further Reading :

3. Robert Lafore : *OOP in Turbo C++, Galgotia.*
4. Herbert Schildt : *Schildt's Advanced Win 95 Prog. in C & C++, TMH.*
5. Herbert Schildt : *C++ The Complete Reference, TMH.*

Paper – PCS03 : Practical Based on Paper CS06

COMPUTER SCIENCE**SEMESTER-IV****SCHEME OF EXAMINATION**

| FOURTH SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|-----------------|-------------|---------------------------------|---------------|------|------|---------------|
| Paper – CS07 | Theory-A | Database Concepts | 3 | 30 | 5 | 35 |
| Paper –CS08 | Theory-B | Data Structures | 3 | 30 | 5 | 35 |
| Paper – PCS04 | Practical-C | Practical Based on Paper – CS08 | 3 | 30 | -- | 30 |

Note : Practical marks will include the appropriate weightage for proper maintenance of Lab. Record.

Paper-CS07: Database Concepts

Objective : To teach the underlying concepts of database system in depth to students.

- Note :*
- (i) The question paper will consist of Four units.
 - (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
 - (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
 - (iv) All questions carry equal marks unless specified.

UNIT – I

Basic Concepts: A Historical perspective, File Systems vs. DBMS, Characteristics of the Data Base Approach, Abstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS, Implication of Database approach; Data Independence.

UNIT – II

Relational Data Model: Relational model concepts, Integrity constraints over Relations, Conventional Data Models : An overview of Network and Hierarchical Data Models. The 12 Rules (Codd's Rule) for an RDBMS; Entity Relationship model.

UNIT – III

Relational Algebra and Calculus: Storage Organization for Relations, Relational Algebra: Operations - union, intersection, difference, Cartesian product, projection, selection, division and relational algebra queries; Relational Calculus: Tuple oriented and domain oriented relational calculus and its operations.

UNIT – IV

Advance concepts: Client-Server Architecture, 3-tier Architecture of database, Distributed databases, Normalization: First, second and third Normal Form, Boyce Codd Normal Form; Database Integrity: entity and referential; Security: , Concurrency, Recovery

Suggested Reading**Essential :**

1. Date, C.J., 1981 : *An Introduction to Data Base Systems*, Vols. I and II, Addison-Wesley.

Further Readings

2. Ullman, Jeffrey D., : *Principles of Data Base Systems*, 2nd Edition, Galgotia Publ. Pvt. Ltd. 1982.
3. Whittington, R.P. : *Data Base System Engineering*, Clavendon Press.
4. Pratt, P., 1987 : *Data Base Systems Management and Design*, Boyd and Fraser Publ. Comp.

Paper-CS08 : Data Structures

Objective : To teach the students various data structures and operations performed on them using algorithms. The students will be capable to implement these operations using any programming language.

Note : (i) The question paper will consist of Four units.

- (ii) Examiner will set total of **NINE** questions comprising **TWO** questions from each unit and **ONE** compulsory question of short answer type covering the whole syllabi.
- (iii) The students are required to attempt **ONE** question from each unit and the compulsory question.
- (iv) All questions carry equal marks unless specified.

UNIT – I

Basic Concepts: Introduction to Complexity, Data Structure and Data Structure operations. Applications of Data Structure, Basic data Structures; **Arrays:** Introduction, Types of Array, Memory representation, Applications and operations. **Stacks:** Introduction, memory representation, Applications and operations

UNIT – II

Linked List: Operations:-traversing, searching, inserting, deleting, operations on header linked list, circular linked list, doubly linked list, memory representation, Applications, polynomial manipulation; **Queue:** Introduction, Types, Memory Representation and Applications.

UNIT – III

Trees – Definition and Basic concepts, Representation in Contiguous Storage, Binary Tree, Binary Tree Traversal, Binary Search tree; **Graphs:** Introduction, Memory Representation, Graph Traversal (DFS and BFS).

UNIT – IV

Searching: Binary and Linear Search; **Sorting:** Bubble sort, Insertion sort, Selection sort, Merge Sort, Quick sort.

Suggested Readings :**Essential :**

1. Lipschultz L. Seymour, 2001 : Data Structure, Schaum Outline Series, TMH, New Delhi.

Further Readings :

2. Tannenbaum, Aaro M., 1990 : Data Structure Using C, Pearson.

Paper – PCS04 : Practical Based on Paper CS08 – Implement Data Structures Operations using C / C++.

HOME SCIENCE**B.A./B.Sc. (GENERAL) SECOND YEAR EXAMINATION, 2020-21
SEMESTER- III****Scheme of Examination**

| Theory | | | | | | Practical | | | | |
|----------------|----------------------|----------------------|---------------------|-----------------------|------------------|----------------------|---------------------|-----------------------|------------------|--------------------|
| <i>Sr. No.</i> | <i>Name of Paper</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks allotted</i> | <i>Int. Ass.</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks Allotted</i> | <i>Int. Ass.</i> | <i>Total Marks</i> |
| 1. | Clothing & Textiles | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total : | | | | | | | | | 100 | |

Note : 1. Each Practical group will have 12-15 students.

SEMESTER-III**CLOTHING & TEXTILE (THEORY)**

| | |
|-------------------|---------------------------|
| Max. Marks | : 50 |
| Theory | : 45 |
| Int. Ass. | : 05 |
| Hours | : 6 Hours per week |

INSTRUCTIONS FOR THE PAPER SETTER :

The question paper will consist of five Sections: A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES :

Candidates are required to attempt one question each from the Sections A, B, C & D of the question paper and the entire section E.

- Note:**
1. Internal assessment should be based on: Assignment/test/Seminars & Attendance for Theory & Practical.
 2. Practical examination will be held before the final Theory Exams.
 3. Practical group should have 12-15 students.

SECTION-A

1. Equipment & supplies used for Clothing construction - their use & care
2. Sewing Machine :
 - (a) Parts of Sewing Machine and its accessories.
 - (b) Common defects in sewing machine & their remedies.
 - (c) Care of Sewing Machine.

SECTION-B

1. Recording of body measurements & care to be taken while taking body measurements.
2. Preparation of fabric for construction- shrinking and straightening.
3. Tools of Drafting, Steps involved in drafting from measurement to garment construction, points to be kept in mind while making a draft.
4. Terms used in construction i.e. Seam Allowance, Ease, Selvedge, Dart, Grain line, Stay stitching.

SECTION-C

1. Classification of textile fibres
2. Manufacture and Properties of fibres:
Cotton, Silk, Wool, Nylon.

SECTION-D

1. Different types of yarns:
Simple, Novelty and Textured Yarns.
2. Fabric Construction –
 - (A) Weaving - Parts of a loom, Process of weaving & Types
 - a. Simple weaves – Plain, Rib, Basket
 - b. Twill weaves
 - c. Satin weave & Sateen weave
 - (B) Knitting, Felting and Bonding.

(SEMESTER-III)**CLOTHING & TEXTILE (PRACTICAL)**

Maximum Marks : 50
Paper : 45
Internal Assessment: 05
Time : 6 Hours per week

1. Make samples of the following :

- (a) Tacking, running stitch, hemming, Back Stitch, Fasteners using buttonhole stitch
- (b) Seams—Flat seam, Counter hem, Mantua maker, French Seam & Run & Fell seam.
- (c) Processes—Continuous wrap, two piece placket opening, pleats, gathers into a band, tucks.
- (d) Joining- shaped facing on V neck line & piping on round neck.

2. Embroidery—any “10” fancy stitches.**3. Drafting of the following:**

- (a) Jangia
- (b) Bloomer
- (c) Child's bodice block
- (d) Sleeve- Plain sleeve, Puff sleeve
- (e) Collars- Baby, Cape & Peter Pan

4. Construction of following :

- (a) Jangia
- (b) Bloomer
- (c) Gathered frock with any sleeve and collar.

HOME SCIENCE**B.A./B.Sc. (GENERAL) SECOND YEAR EXAMINATION, 2020-21
SEMESTER- IV****SEMESTER-IV**

| Theory | | | | | | Practical | | | | |
|----------------|----------------------|----------------------|---------------------|-----------------------|------------------|----------------------|---------------------|-----------------------|------------------|--------------------|
| <i>Sr. No.</i> | <i>Name of Paper</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks allotted</i> | <i>Int. Ass.</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks Allotted</i> | <i>Int. Ass.</i> | <i>Total Marks</i> |
| 1. | Clothing & Textile | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total : | | | | | | | | | | 100 |

Note : 1. Each Practical group will have 12-15 students.

SEMESTER-IV**CLOTHING & TEXTILE (THEORY)**

| | |
|-------------------|---------------------------|
| Max. Marks | : 50 |
| Theory | : 45 |
| Int. Ass. | : 05 |
| Hours | : 6 Hours per week |

INSTRUCTIONS FOR THE PAPER SETTER :

The question paper will consist of five Sections : A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of 8 objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES :

Candidates are required to attempt one question each from the Sections A, B, C & D of the question paper and the entire section E.

SECTION-A

1. Elements of art such as colour, form, texture, shape and line
2. Principles of design such as Harmony, Balance, Rhythm, Emphasis, Proportion in relation to clothing

SECTION-B

1. Introduction to Fashion, Fad and Style.
2. Selection of suitable clothes for following age groups :
Infants, Toddlers, School going children, Adolescents, Adults, Elderly.
3. Care & Storage of garments of cotton, wool, silk.

SECTION-C

1. Bleaches- Oxidising, reducing bleaches & their suitability to different fabrics.
2. Finishing- types & importance. Different Finishes- Sizing, Desizing, Calendering, Sanforising, Mercerization, Crease resistant, Water proof & Water repellent, Flame resistant & Flame proof.

SECTION-D

1. Application of colour on fabrics
 - (a) Dyeing-Simple dyeing of cotton
 - (b) Resist-Tie, Dye and Batik
2. Printing-Block printing, screen printing, roller printing
3. Methods of Laundry/Washing.

(SEMESTER-IV)**CLOTHING & TEXTILE (PRACTICAL)**

Maximum Marks : 50
Paper : 45
Internal Assessment: 05
Time : 6 Hours per week

1. Laundry :

- a) Testing of cotton, wool silk and nylon by burning test.
- b) Stain Removal : Rust, Coffee, Tea, Paint, Nail Polish, Lipstick, Perfume, Blood, Boot Polish, Ink (Ball Pen), Curry and Juice.

2. Laundry & finishing of following garments :

- * Cotton : Salwar, Kameez.
- * Synthetic : Gathered Frock/Pleated Skirt.
- * Woollen : Cardigan/Pullovers.
- * Spot cleaning of a Shawl.

3. Preparation of samples of Tie and Dye & Block Printing.
4. Drafting and construction of the following garments:
 - a. Petticoat
 - b. Lady's kameez and salwar
5. Project on Care Labels of Garments or Market survey of Laundry Products.

Reference Books :

1. Singer Sewing Book, Mary Brocks Bichen, McGraw Hill Book Company, Inc., New York, Toronto, London, 1953.
 2. Basic Processes & Clothing Construction, Sherie Doongaji & Raushni Deshpande, Raaj Prakashan, New Delhi (Fourth Revised edition).
 3. Pattern Drafting Vol. III, Dress Making, Kamakura—Shobo Publishing Co. Ltd., Tokyo, Japan, 1972 (Fifth Edition).
 4. A Manual of Children Clothing, Savitri Pandit, Orient Longmans Ltd., Bombay, 1967.
 5. Practical Dress Design, Principles of Fitting and Pattern Making, Mabel D. Erwin, The Macmillan Company, New York, Ninth Printing, 1966.
 6. Indian Embroidery, Its Variegated Charms, Savitri Pandit, Faculty of Home Sciences, Baroda, 1976, First Edition.
 7. The Basic Book of Sewing, Eve Harlow Pub. Octopids Books Ltd., London.
 8. Simple Dress Making 2, Maureen Guddsworthy Pub. Mills & Boon Ltd., London.
 9. Encyclopaedia of Dress Making, Pub. Marshall Caven Dish Books Ltd., London.
 10. Textile Fabrics and their Selection, Isable B. Wingate Prentice Hall, Inc., Englewood Cliffs, N.J., 1970.
 11. Fundamentals of Textiles and their Care, Susheela Dantiyagi, Orient Longmans, Bombay, Calcutta, Madras, New Delhi, Reprinted, 1968.
 12. Household Textiles and Laundry Work, Durga Deulkar, Atma Ram & Sons, New Delhi, 1973.
 13. Ideas for Fabric Printing and Dyeing Gooch, Peter H. Charles Cribner's, New York, 1974.
 14. Encyclopaedia of Textiles, Fabrics, Grayson Martin, John Wiley, New York, 1984.
 15. Tie-Dyed Textiles of India—Veronica Murphy & Rosemary Crill, Pub. Mapiu Publishing Pvt. Ltd., Ahmedabad.
 16. Fashion and Textile Design, Neelima.
 17. Printing and Washing of Textile, Neelima
 18. Handbook of Fashion and Textile Designing, R. K. Sahu.
 19. Traditional Embroidery of India, Shailajan D. Naik.
-



PANJAB UNIVERSITY, CHANDIGARH-160014 (INDIA)
(Estd. under the Panjab University Act VII of 1947—enacted by the Govt. of India)

SYLLABI

FOR

**B.A. & B.Sc. (GENERAL) THIRD YEAR (SEMESTER SYSTEM)
EXAMINATIONS, 2020-2021**

(SEMESTER : FIFTH AND SIXTH)

i.e

Fifth Semester : *November/December, 2020*
Sixth Semester : *April/May, 2021*

--*:--

© The Registrar, Panjab University, Chandigarh.
All Rights Reserved.

PHYSICAL EDUCATION**B.A. /B.Sc. (GENERAL) FIFTH SEMESTER EXAMINATION (2020-2021)**

Time : 3 Hrs.

| | | |
|---------------------|---|----------|
| Max. Marks | : | 65 |
| Theory | : | 60 marks |
| Internal Assessment | : | 05 marks |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS:

- (i) There shall be nine questions in all, spread over five units.
- (ii) First question/unit is compulsory. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks.
- (iii) Rest of the paper shall contain four units for descriptive questions. Each unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each unit.
- (iv) All questions/units will carry equal marks.
- (v) Private candidates and the students of the University School of Open Learning will not be allowed to take this subject.

UNIT-I**12 Marks**

Entire syllabus given in the Unit-II to V will be covered to set six short answer type questions in first question/unit of the question paper which is compulsory.

UNIT-II**12 Marks****Play:**

- Meaning and Definition of Play.
- Various theories of play and their significance in Physical Education and Sports.

Recreation:

- Meaning, definition, characteristics, aim, objectives and types of recreation and recreational activities.
- Significance of recreation in the modern society.
- Recreation providing agencies.

UNIT-III**12 Marks****Competitions:**

- Meaning, importance and conduct of intramural and extramural competitions.
- Meaning and types of tournament and their merits and demerits.
- Draw of fixtures of various tournaments.

Camps:

- Meaning, aim and objectives of the camp.
- Advantages of camping/outdoor education.
- Types and agencies promoting camping.
- Organization of camps and factors affecting its organization.
- Educative values of a camp.

Athletic Meet:

- Organization of an athletic meet.
- Importance/significance of an athletic meet.

UNIT-IV**12 Marks****Posture:**

- Meaning, types and importance of a good posture.
- Causes, preventive and remedial measures of a poor posture.

Postural Deformities:

- Postural deformities (Kyphosis, lordosis, scoliosis and flat foot), their causes, preventive and remedial measures.

Physical Activities and their effects on various physical parameters and vice versa:

- Physical activities/training and their effects on aging, body composition, and obesity.
- General problems of obesity.
- Health related risk factors of obesity.
- Obesity and physical activity.
- Causes, preventive and remedial measures of obesity.

UNIT-V**12 Marks****Massage:**

- Brief history of massage.
- Meaning and definition of massage.
- Principles/guidelines for massage.
- Types of massage and their benefits.
- Effects of massage on skin, blood circulation, nervous system and muscles.

Basics of Cricket:

History of the game

Basic fundamentals

Equipment and specifications

Marking / layout of field

Rules and regulations (number of players, duration of game, number of officials required and general rules of play)

Major tournaments and Arjuna awardees of the game.

References :

1. Bell, A.J. : *"Massage and the Physiotherapist : Physiotherapy"*, 1964.
2. Butler, G.D. : *"Introduction to Community Recreation"*, McGraw Hill Book Company, Inc. New York, 1959.
3. Garinder, M. Dena : *"The Principles of Exercise Therapy"*, Fourth Edition, 1985, CBS Publishers and Distributors, Delhi.
4. Gladys Scott, M. : *"Analysis of Human Motion"*, 2nd Edition, 1970, Eurasia Publishing House Pvt. Ltd., New Delhi.
5. Lee Joseph : *"Play in Education, National Recreation Association"*, New York, 1942.
6. Meyer, Herold D., and Charles K. Brightbill : *"Recreation Administration : A Guide to its Practices"*, Prentice Hall Inc., Englewood Cliffs, N.J., 1956.
7. Mitchell, Elmer D., and Bernard S. Mason : *"Theory of Play"*, The Ronald Press Co., New York, 1948.
8. Nash, Jay B. : *"Philosophy of Recreation and Leisure"*, The C.V. Mosby Co., St. Louis, 1953.
9. Parameswara Ram, N. : *"Kinesiology – Physical Education and Sports"*, Parkash Brothers – Educational Publishers, 1988.
10. Piscopo, John and Baley, James A. : *"Kinesiology : The Science of Movement"*, John Wiley & Sons, Inc., 1981.
11. Singh, Ajmer *et.al.* : *Modern Text Book of Physical Education, Health and Sports* Kalyani Publishers, Ludhiana, 2000.
12. Struna, Monika and Church, Connie : *"Self Massage : Touch Techniques of Relax, Soothe and Stimulate your Body"*, Hutchinson & Co. Ltd., London, 1983.
13. Tirunarayanan, C. Hariharasarma, S. : *"Methods in Physical Education"*, The South India Press, Karaikudi.
14. Wilmore, Jack H. : *"Athletic Training and Physical Fitness"*, 1977, Allyn and Bacon, Inc. 470, Atlantic Avenue, Boston Massachusetts.
15. Wood, Elizabeth C. and Becker, Paul D. : *"Beard's Massage"*, Third Edition, 1981, W.B. Saunders Company, Philadelphia, P.A.

| | |
|------------------|--------------------------------------|
| PRACTICAL | Max. Marks : 35 Marks |
| | Practical : 30 Marks |
| | Internal assessment : 5 Marks |

ATHLETICS

- (a) History of athletics
- (b) List of track and field events
- (c) Marking of standard track, width of lanes and starting points for various races.

1. THROWS:

Throws (Shot-put or Discus Throw or Javelin Throw) and one event of the choice of the student.

- (a) **Shot-put** (The holding the stance, the glide, the delivery and the reverse or the recovery).

OR

Discus Throw (The handhold, the initial stance, the preliminary swings, turn the delivery and the reverse or the recovery).

OR

Javelin Throw (The grip, the carry, the run way approach, the last five strides, the delivery, the reverse or the recovery).

- (b) Measurements of equipment and the throwing circles or the approach run, the arc and the throwing area/the sectors.

2. PHYSICAL FITNESS TESTS: More emphasis shall be given on variety of physical exercises for the development of Flexibility and strength components of physical fitness.

Test 1- Flexibility: Sit and reach test

Test 2- Strength: Medicine Ball Throw.

Division of Practical Marks: Marks for each activity shall be divided as under:

Athletics and Physical fitness 15 marks, Participation and achievement in sports/games 5 marks, viva voce/ practical file 10 marks and internal assessment 5 marks based on overall performance of a student during the current semester which will be assessed by the teacher concerned.

Note : 1. Polevault, Hammer Throw Hurdles, Relay Races and steeple chase men are not included in the practical syllabus/course due to the fact that these events are highly technical. Moreover in the absence of proper facilities required for the events mentioned above may prove to be injurious /fatal to the students.

- 2. 12 periods per week (6 periods each for theory and practical) shall be allotted to a class.
- 3. The theory and practical class shall consist of 60-80 students and 30-40 students respectively.

4. The theory and practical papers shall consist of 65 and 35 marks each.
5. As per the Panjab University Calendar, Chapter XIX (Page 324) Volume III, 1990, the maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass Course is 24 periods per week, which includes theory as well as practical.
6. The choice of games by the students shall be confined to games approved by the Association of Indian Universities.
7. A student is required to prepare a practical notebook on athletics with complete marking of standard track and starting points for various races and an event (long jump) mentioned in the syllabus.

Mandatory Instructions for the Colleges:

1. Admission Criteria:

- (i) Any student opting to have Physical Education as an Elective Subject irrespective of the background of the students (sports or non-sports students) must appear in the physical fitness test. Ranking should be prepared and the top 60-80 students should be offered this subject.
- (ii) This subject should be offered to the normal students (not to disabled one).
- (iii) To measure Physical Fitness through Cardiovascular Fitness Test, Cooper's 9 Minutes or 12 Minutes Run-Walk Test should be conducted.
- (iv) The date of Physical Fitness Test must be mentioned in the prospectus of the College.

2. Periodical Physical Inspections:

The University/Authorities with the collaboration of the Department of Physical Education, Panjab University, shall make Periodical Physical inspections of the various colleges to ensure that the teacher student ratio is maintained by all the affiliated colleges for this subject **as per the University Guidelines**, and for them to ensure that infrastructure (facilities), equipment, books/professional journals and groundmen, a game boy are provided as per the requirements of the subject and directions of the Panjab University, Chandigarh.

3. Strength of Students :

For imparting effective teaching, the strength of students in a theory class shall be between 60-80 while it shall be 30-40 students in practical class.

4. Infrastructure/facilities and Supporting personnel:

For the introduction/to continue with this subject, a college must fulfil the following mandatory requirements:

- (i) A track atleast of 200 mtrs., it should, however, preferable be raised to 400 mtrs. track.

- (ii) Bare minimum two Malies-cum-Groundmen for maintenance of the grounds and other infrastructure facilities etc.
- (iii) A game boy to supply the sports equipments and water to the students/ teachers on the ground/playfield/arena.
- (iv) A store-keeper for the proper maintenance/accountability of sports equipments in the stores.

5. Number of Periods :

The number of periods for theory and practical shall be 12 periods per week (6 periods each for theory and practical) for classes i.e. B.A. First to sixth semester.

Practical period shall be projected in the college time table itself.

6. Teaching Work Load :

- (i) As per the Panjab University Calendar Chapter XX (Page 298) Volume-III, 1996, the Maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass course is 24 periods per week which includes theory as well as practical.
- (ii) Teachers who are preparing 6 teams for the Panjab University Inter College Competition, their work load shall be counted by including six periods per week in the teaching load of concerned teachers in Physical Education.

7. Division of Marks (Theory and Practical) :

65% and 35% weightage shall be given to each theory and practical papers.

Note : STRICT ACTION SHALL BE TAKEN BY THE UNIVERSITY AGAINST THE COLLEGE(S) THAT VIOLATES THE ABOVE INSTRUCTIONS.

PHYSICAL EDUCATION**B.A. / B.Sc. (GENERAL) SIXTH SEMESTER EXAMINATION (2020-2021)**

Time : 3 Hrs.

| | | |
|---------------------|---|----------|
| Max. Marks | : | 65 |
| Theory | : | 60 marks |
| Internal Assessment | : | 05 marks |

INSTRUCTIONS FOR THE PAPER-SETTER AND STUDENTS:

- There shall be nine questions in all, spread over Five Units.
- First question/Unit is compulsory. It will contain six short answer type questions, spread over the whole syllabus to be answered in brief. It will carry 12 marks.
- Rest of the paper shall contain four units for descriptive questions. Each unit shall have two questions and the students shall be given internal choice i.e. the students shall attempt one question from each unit.
- All questions/units will carry equal marks.
- Private candidates and the students of the University School of Open Learning will not be allowed to take this subject.

UNIT-I**12 Marks**

Entire syllabus given in the Unit-II to V will be covered to set six short answer type questions in first question/unit of the question paper which is compulsory.

UNIT-II**12 Marks****Nervous System:**

- Meaning of Nervous System.
- Main organs of Nervous System and their functions.
- Reflex action and Reciprocal Innervations.
- Functional classification of Nervous System.

Excretory System:

- Meaning of Excretory System.
- Main organs of Excretory System and their structure and functions.

Endocrine System:

- Meaning of **Endocrine System**.
- Meaning of Glands, their location and functions/Harmones produced by them.

UNIT-III**12 Marks****Sports Training,**

- Meaning, definition, aim, objective, characteristics and principles of sports training.

General Physiological concept:

- Physiological concepts such as vital capacity, second wind, stitch in the side and its causes.
- Definition of oxygen debt/excess post exercise oxygen consumption (EPOC) and its implication.
- Meaning definition and types of fatigue.
- Muscular contractions such as isotonic, isometric, eccentric and isokinetic.
- Meaning of Blood pressure, Hypertension: Its causes, effects and treatment, exercise and Hypertension.

Effects of Physical Exercise / Training on body systems:

- Effects of Physical exercise/Training on muscular, respiratory and circulatory systems of the body.

UNIT-IV**12 Marks****Carrier aspects in Physical Education:**

- Carrier options in Physical Education.
- Different avenues in Physical Education.
- Self assessment for carrier choices.
- Courses and institutions available for Physical Education profession.

UNIT-V**12 Marks****Coach:**

- Coaching, coaching philosophy, definition of a coach.
- Qualification and characteristics of a coach.
- Responsibilities of a coach.

Basics of Table Tennis:

- History of the game
- Basic fundamentals
- Equipment and specifications
- Marking / layout of T.T Table
- Rules and regulations (number of players, duration of game, number of officials required and general rules of play)
- Major tournaments and Arjuna awardees of the game

References :

1. Chaurasia, B.D. : "*Handbook of General Anatomy*", CBS Publishers and Distributors, First Edition, 1981.
2. Dandiya, P.C., Jafer, Z.Y.K. and Jafer Afifa : "*Health Education and Community Pharmacy*", Second Edition, 1996, Reprinted in 1998, Vallabh Prakashan, Pitampura, New Delhi.
3. Dick, Frank, W. : "*Sports Training Principles*", Lepus Books, London, 1980.
4. Jensen, C.R. and Fisher, A.G. : "*Scientific Basis of Athletic Conditioning*", Lea and Febiger, Philadelphia, 1979.
5. Matveyer, L. : "*Fundamentals of Sports Training*", Mir Publication, Moscow, 1981.
6. Mathews, D.K. and Fox, E.L. : "*The Physiological Basis of Physical Education & Athletics*", Second Edition, W.B. Saunders Co., Philadelphia, 1976.
7. McArdle, William D., Katch Frank I., and Katch, Victor, L. : "*Exercise Physiology : Energy, Nutrition and Human Performance*", Lea and Febiger, Philadelphia, 1981.
8. Morgan, R.E. and Adamson, G.T. : "*Circuit Training*", Bell and Sons, London, 1958.
9. Morehouse, L.E. and Miller, A.T. : "*Physiology of Exercise*", The C.V. Mosby Co., St. Louis, 1965.
10. Parrot, J.W. : "*Anatomy and Physiology for Physical Education Teachers*", Lend Edward Arnold Ltd., 1983.
11. Rose & Wilson : "*Foundations of Anatomy and Physiology*, 5th Edition, 1981, Reprinted in 1985.
12. Sampath, K. & Uma Maheshwar, B. : "*Human Anatomy & Physiology*", First Edition, 1999-2000, Birla Publications, Delhi.
13. Shaphard, R.J. : "*The Fit Athlete*", Oxford University Press, 1978.
14. Shaver, Larry G. : "*Essential of Exercise Physiology*", Surjeet Publications, Delhi First Indian Print, 1982.
15. Singh, Ajmer, Et.al. : "*Modern Text Book of Physical Education, Health and Sports*", Kalyani Publishers, Ludhiana, 2000.
16. Singh, Hardyal : "*Sports Training-General Theory and Methods*", Netaji Subhash National Institute of Sports, Patiala, 1984.
17. Wilmore, Jack H. : "*Athletic Training and Physical Fitness*", 1977, Allyn and Bacon, Incl., 470, Atlantic Avenue Boston, Massachusetts.

PRACTICAL

| | | |
|----------------------------|----------|-----------|
| Max Marks | : | 35 |
| Practical | : | 30 |
| Internal assessment | : | 5 |

GAMES

(Badminton or Hockey and any other one game of the choice of the student).

Badminton:

- Measurement (Badminton Court, Net, Racket and Shuttle cock) for singles and doubles.
- Number of players and officials.
- Holding the racket and shuttle cock.
- Types of Service: High and Low.
- Types of Strokes: fore hand, back hand, over head.
- Shots: Smash, Lob shot, net shot, dive shot.
- Rules and regulations of the game.

Hockey :

- Measurements (Hockey ground, goalpost, hockey stick, ball and flags) for men and women.
- Number and position of players and officials.
- Fundamental skills (grip, hitting, stopping dribbling, push, scoop and flick).
- Rules and regulations of the game.

Division of Practical Marks:

Marks for each activity shall be divided as under:

Game 10 marks, participation and achievement in sports/games 5 marks, Physical fitness 5 marks, viva voce/practical file 10 marks and internal assessment 5 marks based on overall performance of a student during the current semester which will be assessed by the teacher concerned.

Note:

- 12 periods per week (6 periods each for theory and practical) shall be allotted to a class.
- The theory and practical class shall consist of 60-80 students and 30-40 students respectively.
- The theory and practical papers shall consist of 65 and 35 marks each.
- As per the Panjab University Calendar, Chapter XIX (Page 324) Volume III, 1990, the maximum teaching work load for an Assistant Professor in Physical Education for B.A. Pass Course is 24 periods per week, which includes theory as well as practical.
- The choice of games by the students shall be confined to games approved by the Association of Indian Universities.
- A student is required to prepare a practical notebook of a game given in the syllabus and any one game of choice.

Mandatory Instructions for the Colleges:*1. Admission Criteria:*

- (i) Any student opting to have Physical Education as an Elective Subject irrespective of the background of the students (sports or non-sports students) must appear in the physical fitness test. Ranking should be prepared and the top 60-80 students should be offered this subject.
- (ii) This subject should be offered to the normal students (not to disabled one).
- (iii) To measure Physical Fitness through Cardiovascular Fitness Test, Cooper's 9 Minutes or 12 Minutes Run-Walk Test should be conducted.
- (iv) The date of Physical Fitness Test must be mentioned in the prospectus of the College.

2. Periodical Physical Inspections :

The University/Authorities with the collaboration of the Department of Physical Education, Panjab University, shall make Periodical Physical inspections of the various colleges to ensure that the teacher student ratio is maintained by all the affiliated colleges for this subject **as per the University Guidelines**, and for them to ensure that infrastructure (facilities), equipment, books/professional journals and groundmen, a game boy are provided as per the requirements of the subject and directions of the Panjab University, Chandigarh.

3. Strength of Students:

For imparting effective teaching, the strength of students in a theory class shall be between 60-80 while it shall be 30-40 students in practical class.

4. Infrastructure/facilities and Supporting personnel:

For the introduction/to continue with this subject, a college must fulfil the following mandatory requirements such as:

- (i) A track atleast of 200 mtrs., it should however, preferable be raised to 400 mtrs. track.
- (ii) Bare minimum two Malies-cum-Groundmen for maintenance of the grounds and other infrastructure facilities etc.
- (iii) A game boy to supply the sports equipments and water to the students/ Assistant Professors on the ground/playfield/arena.
- (iv) A store-keeper for the proper maintenance/accountability of sports equipments in the stores.

5. Number of Periods:

The number of periods for theory and practical shall be 12 periods per week (6 periods each for theory and practical) for classes i.e. B.A. First to sixth semester.

Practical period shall be projected in the college time table itself.

6. Teaching Work Load:

- (i) As per the Panjab University Calendar Chapter XX (Page 298) Volume-III, 1996, the maximum teaching work load for a Assistant Professor in Physical Education for B.A. Pass course is 24 periods per week which includes theory as well as practical.
- (ii) Teachers who are preparing 6 teams for the Panjab University Inter College Competition, their work load shall be counted by including six periods per week in the teaching load of concerned teacher in Physical Education.

7. Division of Marks (Theory and Practical):

65% and 35% weightage shall be given to each theory and practical papers.

Note : STRICT ACTION SHALL BE TAKEN BY THE UNIVERSITY AGAINST THE
COLLEGE(S) THAT VIOLATES THE ABOVE INSTRUCTIONS.

MUSIC (Instrumental)**SEMESTER-V****GENERAL INSTRUCTIONS:-**

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be up to ten students in one section in practical class.
3. **There should not be more than ten students in a batch for practical examination.**
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting at least one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent.**
8. The candidate can take vocal music or Tabla along with instrumental music.

Paper-A: THEORY (Instrumental) (3 hrs. duration) : 45 marks
(Duration 45 minutes 06 practical + 02 Theory periods per week)

Paper-B : PRACTICAL (20 minutes duration) : 45 marks

(i) Viva : 35 marks

(ii) Gayan : 05 marks

(iii) Tabla : 05 marks

Internal Assessment (Theory + Practical) : 05+05 = 10 marks

Total: 100 marks

Paper-A: THEORY (Duration 45 minutes 02 theory periods per week)

UNIT-I

1. Explain & define the different Vadan Shailies (Styles) of your own instrument.
2. Historical development of Indian Musical Scale.
3. Varieties of Tana / Tora & its Varieties.
4. Historical development of Indian Music From Pre Historic to 4th Century.

UNIT-II

1. Importance of Laya and Tala in Music
2. Folk Instruments of Punjab.
3. Scope of Instrumental Music.

UNIT-III

Brief life sketches and their contributions:-

1. Ustad Bismillah Khan
2. Ustad Hafiz Ali Khan
3. Pt. Nikhil Banerji

UNIT-IV

Notations and Description of ragas and Talas:- Malkauns, Jai Jaiwanti

1. To write one Maseetkhani Vilambit Gat with Todas
2. To write Razakhani Drut Gat with Todas of ragas Malkauns, Jai Jaiwanti
3. To write single and double of Tala :- Deepchandi, Tilwada, Chartal.
4. Non- detailed raga:- Chandrakauns, Des

NOTE: -Both the questions from this part must contain one notation of Raga alongwith the notation of Talas/ Description of Ragas.

UNIT-V

1. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of carry 01 marks each.**

Paper-B: PRACTICAL (Duration 45 minutes 06 practical periods per week)

1. One Razakhani Drut Gat with Alaps and Toras & Jhalas in each of the following Ragas : Malkauns, Jai Jaiwanti
2. One Maseet Khani Vilambit Gats with Alap-Jod and Toras in any of the prescribed ragas.
3. Knowledge of the following non-detailed ragas:- Chandrakauns, Des.
4. Ability to demonstrate by hands in Ekgun and Dugun layakaries of the following talas : Deepchandi, Tilwada.
5. Ability to play Chartal on Tabla.
6. One Dhun.
7. Ability to play techniques of your Instruments: Meend, Kan, Krintan, Ghaseet.
8. Ability to sing shudh, komal and tivra swaras with the help of harmonium.
9. Tuning of your Instrument.

Books Recommended:

- | | | |
|--|-------|---|
| 1. Sangeet Kala Ka Itihas | : | Dr. Panna Lal Madan |
| 2. Sangeet Shastra Vigyan | : | Dr. Panna Lal Madan |
| 3. <i>Rag Parichaya Part III & IV</i> | : | H.C. Shrivastava. |
| 4. <i>Folk Instruments of Punjab</i> | : | Prof. Anil Narula (Published by Punjabi University, Patiala). |
| 5. <i>Hamare Sangeet Ratna</i> | : | Sangeet Karayalaya, Hathras. |
| 6. <i>Sangeet SAR Part III</i> | : | Mrs. Veena Mankaran. |
| 7. <i>Sangeet Granth atey Bharti Sangeet Da Itihas</i> | : | Chander Kanta, Khosla |
| | ----- | |

MUSIC (Instrumental)
SEMESTER-VI

GENERAL INSTRUCTIONS:-

1. In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
2. There would be up to ten students in one section in practical class.
3. There should not be more than ten students in a batch for practical examination.
4. Harmonium can be used while singing Alankars.
5. In all, *nine* questions will be set. The question paper will be divided into five Units. Four Units will contain two questions each and the candidates are required to attempt four questions selecting at least one question from each Unit. **The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of 01 marks each.**
6. In Instrumental Music, the candidates have the option to take any one of the following instruments: Sitar, Sarangi, Veena, Sarod, Dilruba, Violin, Guitar, Bansuri, Shahnai, Santoor.
7. **While sending the syllabus to paper-setter in theory, the syllabus prescribed for the practical paper should also be sent.**
8. The candidate can take vocal music or Tabla along with instrumental music.

Paper-A: THEORY (Instrumental) (3 hrs. duration) : 45 marks
(Duration 45 minutes 06 practical + 02 Theory periods per week)

Paper-B : PRACTICAL (20 minutes duration) : 45marks

| | | |
|--|---|------------------|
| (i) Viva | : | 35 marks |
| (ii) Gayan | : | 05 marks |
| (iii) Tabla | : | 05 marks |
| Internal Assessment (Theory + Practical) | : | 05+05 = 10 marks |

Total: 100 marks

Paper-A: THEORY (Duration 45 minutes 02 theory periods per week)

UNIT-I

1. Historical Development of Indian Music i.e. from 4th to 13th Century.
2. Notational System, origin and development
3. Knowledge of Uttari and Dakshani Sangeet Paddhati

UNIT-II

1. The life Sketches and contributions of the following great musicians :-
 - (i) Dr. Lal Mani Mishra
 - (ii) Dr. Panna Lal Ghosh
 - (iii) Smt. Sharan Rani

UNIT-III

Essays:-

- (i) Chitrat Sangeet Mein Vadyon Ki Bhoomika.
- (ii) Role of the Akashvani and Doordarshan in popularizing Instrumental Music.
- (iii) Manch Pradarshan

UNIT-IV

Notation and Description of the prescribed Ragas and Talas:-

1. Ragas:- Mian-Ki-Todi, Mian Malhar.
2. Talas :- Jhumra , Panjabi theka /Addha tal & Jat tal.
3. Non detail Raga :- Gujri -Todi, Bahar
 - To write one maseetkhni Drut Gat with todas in any prescribed rag
 - To write a Razakhani Gat with Todas
 - To write single and double of prescribed Talas
 - To write the description of detailed and non detailed raga

NOTE: - Both the questions from this part must contain one notation of Raga alongwith the notation of Talas/ description of Ragas.

UNIT-V

1. The ninth question of unit V is compulsory & it consists of 13 short answer questions (covering entire syllabus i.e. theory and practical) out of which students have to attempt 09 questions of carry 01 marks each.

Paper-B: PRACTICAL (Duration 45 minutes 06 practical periods per week)

1. One Razakhani Drut Gat with Alaps and Toras & Jhalas in each of the following Ragas: Mian-Ki-Todi, Mian- Malhar
2. One Maseet Khani Vilambit Gat with Alap-Jod and Toras in any of the prescribed ragas.
3. Knowledge of the following non-detailed ragas:Gujri-Todi, Bahar
4. Ability to demonstrate by hands in Ekgun and Dugun layakaries of the following talas : Jhumra , Panjabi theka /Addha tal & Jat tal.
5. Ability to play Tilwada on Tabla.
6. One Sitarkhani gat with toras in any prescribed ragas.
7. Ability to play techniques of your Instruments: Zamzma , Khatka.
8. Ability to sing shudh, komal and tivra swaras with the help of harmonium.
9. Tuning of your Instrument.

Books Recommended:

- | | | |
|--|---|---|
| 1. Sangeet Kala Ka Itihas | : | Dr. Panna Lal Madan |
| 2. Sangeet Shastra Vigyan | : | Dr. Panna Lal Madan |
| 3. <i>Rag Parichaya Part III & IV</i> | : | H.C. Shrivastava. |
| 4. <i>Folk Instruments of Punjab</i> | : | Prof. Anil Narula (Published by Punjabi University, Patiala). |
| 5. <i>Hamare Sangeet Ratna</i> | : | Sangeet Karayalaya, Hathras. |
| 6. <i>Sangeet SAR Part III</i> | : | Mrs. Veena Mankaran. |
| 7. <i>Sangeet Granth atey Bharti Sangeet Da Itihas</i> | : | Chander Kanta, Khosla |

FINE ARTS**SEMESTER V****THEORY****Paper A : History of Art****Max. Marks : 54****Max. Time : 3 hrs****Objectives :**

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject-matter of these works.

INSTRUCTIONS FOR PAPER-SETTERS AND CANDIDATES

1. Each paper carries 54 marks.
2. The paper-setter is required to set nine questions in all. The candidate is to attempt five questions as per the instructions given in the question-paper.
3. The first question shall be of short-answer type containing nine questions spread over the whole syllabus. Each question is to be answered in about 25-30 words. It shall carry 18 marks and shall be a compulsory question.
4. Eight questions are to be set from the entire syllabus consisting of four units. Two questions will be set from each unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each unit. So in all, the candidate shall attempt four questions in all out of eight questions. Each question would be of nine marks.

Unit I : History of Indian Painting

- Rajasthani Painting – Chavand Raagmala from Mewar, Raag-Raagini from Bundi and Nayika from Kishangarh
- Pahari Painting – Ramayana from Basohli, Gita-Govinda from Kangra

Unit II : History of Indian Sculpture

- Mahabalipuram – Maheshasuramardini
- Elephanta – Ardhanarishwara
- Chola Bronzes – Nataraja and Parvati Images

Unit III : History of Western Art

- Beginning of Modern Painting – Manet
- Impressionism – Monet
- Neo Impressionism-Seurat
- Post Impressionism-Van Gogh

Unit IV : Definition of Key terms, General Concepts and Techniques

- Form and Content, Art and Religion, Art and Society, Tradition, Modernity

Pedagogy:

The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitions and art galleries are a part of study.

Suggested Readings

1. Majumdar, R.C. (editor) : *The History and Culture of Indian People*, Vols. I, II and III (Sculpture and Painting Sections only), Bhartiya Vidya Bhawan, Bombay, 1988, 1990, 1996.
2. Goswamy, B.N. & Fischer, E. : *Pahari Masters : Court Painters of Northern India*, Museum Reitberg, Zurich, Switzerland, 1992.
3. Khandalwala, Karl : *Pahari Miniature Painting*, The New Book Co. Pvt. Ltd., Bombay, 1958.
4. Rowland, Benjamin : *The Art and Architecture of India*, Penguin Books, Great Britain, 1959.
5. Saraswati, S.K. : *A Survey of Indian Sculpture*, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
6. Ray, N.R. : *An Approach to Indian Art*, Publication Bureau, Panjab University, Chandigarh, 1974.
7. Barrett, D. and Gray, B. : *Painting of India*, The World Publishing Co., Ohio, 1963.
8. Archer, W.G. : *India and Modern Art*, George Allen & Unwin Limited, London, 1959.
9. Aggarwala, V.S. : *Heritage of Indian Art*, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
10. Aggarwala, V.S. : *Indian Art* (English), Varanasi, 1965.
11. Aggarwala, V.S. : *Bhartiya Kala* (Hindi), Prithvi Prakashan, 1977.
12. Read, Herbert : *Meaning of Art*, Faber & Faber, London, 1972.
13. Janson, H.W. : *History of Art*, Thames & Hudson, London, 2001.
14. Gardner, Helen : *Art Through the Ages*, Harcourt Brace & Co., U.S.A., 1991.
15. Gombrich, E.H. : *The Story of Art*, Phaidon Press Limited, New York, 1995.
16. Arnason, H.H. : *A History of Modern Art*, Thames & Hudson, London, 1988.

FINE ARTS
SEMESTER VI

THEORY

Paper A : History of Art

Max. Marks : 54

Max.Time : 3hrs

Objectives :

The aim of the paper is to introduce to the students various schools, styles and phases of the developments in painting and sculpture in India and the West. The emphasis will be to make them aware of the different terms, concepts, forms and subject-matter of these works.

INSTRUCTIONS FOR PAPER-SETTERS AND CANDIDATES

1. Each paper carries 54 marks.
2. The paper-setter is required to set nine questions in all. The candidate is to attempt five questions as per the instructions given in the question-paper.
3. The first question shall be of short-answer type containing nine questions spread over the whole syllabus. Each question is to be answered in about 25-30 words. It shall carry 18 marks and shall be a compulsory question.
4. Eight questions are to be set from the entire syllabus consisting of four units. Two questions will be set from each unit and the candidates shall be given internal choice i.e. a candidate shall attempt one question from each unit. So in all, the candidate shall attempt four questions in all out of eight questions. Each question would be of nine marks.

Unit I : History of Indian Painting

- Company Painting
- Folk Style – Kalighat and Maithili

Unit II : History of Indian Sculpture

- Khajuraho – Mother and Child
- Konark – Musician Figures
- Sravanbelgola – Bahubali

Unit III : History of Western Art

- Expressionism – Edvard Munch
- Fauvism-Matisse
- Cubism-Picasso

Unit IV : Definition of Key terms, General Concepts and Techniques

- Beauty, Rasa and Bhava, Gestures, Postures and Movements, Stained Glass, Cire-perdue (lost-wax casting)

Pedagogy :

The students are expected to familiarize themselves with the art forms as seen from the books, slides and related films. Visits to Museums, exhibitions and art galleries are a part of study.

Suggested Readings

1. Majumdar, R.C. (editor) : *The History and Culture of Indian People*, Vols. I, II and III (Sculpture and Painting Sections only), Bhartiya Vidya Bhawan, Bombay, 1988, 1990, 1996.
2. Goswamy, B.N. & Fischer, E. : *Pahari Masters : Court Painters of Northern India*, Museum Reitberg, Zurich, Switzerland, 1992.
3. Khandalwala, Karl : *Pahari Miniature Painting*, The New Book Co. Pvt. Ltd., Bombay, 1958.
4. Rowland, Benjamin : *The Art and Architecture of India*, Penguin Books, Great Britain, 1959.
5. Saraswati, S.K. : *A Survey of Indian Sculpture*, Munshiram Manoharlal Publishers Pvt. Ltd., New Delhi, 1975.
6. Ray, N.R. : *An Approach to Indian Art*, Publication Bureau, Panjab University, Chandigarh, 1974.
7. Barrett, D. and Gray, B. : *Painting of India*, The World Publishing Co., Ohio, 1963.
8. Archer, W.G. : *India and Modern Art*, George Allen & Unwin Limited, London, 1959.
9. Aggarwala, V.S. : *Heritage of Indian Art*, Publications Division, Ministry of Information & Broadcasting, Govt. of India, New Delhi, 1976.
10. Aggarwala, V.S. : *Indian Art* (English), Varanasi, 1965.
11. Aggarwala, V.S. : *Bhartiya Kala* (Hindi), Prithvi Prakashan, 1977.
12. Read, Herbert : *Meaning of Art*, Faber & Faber, London, 1972.
13. Janson, H.W. : *History of Art*, Thames & Hudson, London, 2001.
14. Gardner, Helen : *Art Through the Ages*, Harcourt Brace & Co., U.S.A., 1991.
15. Gombrich, E.H. : *The Story of Art*, Phaidon Press Limited, New York, 1995.
16. Arnason, H.H. : *A History of Modern Art*, Thames & Hudson, London, 1988.

PSYCHOLOGY
SEMESTER - V

Objectives :

- (I) The course will enable the students to get an introductory knowledge about Clinical Psychology with emphasis on the dynamics of some of the behavioural disorders and therapies. Students will also have some knowledge about stress and coping; and will get acquainted with elementary inferential statistics.
- (II) Pedagogy of the Course Work :
- 80 % Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

PAPER: CLINICAL PSYCHOLOGY

| | | |
|---------------------|---|----------|
| Theory | : | 70 marks |
| Internal Assessment | : | 10 marks |
| Time | : | 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

The syllabus has been divided into four units.

- (a) There shall be 9 questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be Compulsory question. Rest of the paper shall contain 4 units. Each Unit shall have two questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit - 4 in all. Each question will carry 14 marks.
- (b) The practical will be of 20 marks.

UNIT-I : Nature and Criteria of abnormality, *Viewpoints Regarding Abnormality*: Historical, Psychodynamic, Behavioural, Cognitive, Humanistic and Interpersonal;

UNIT-II : *Causes of Abnormal Behaviour*: Biological, Psychological and Sociocultural Causes.

UNIT-III : *Stress*: Concept of Stress; Types of Stressors; Etiology of Stress; Coping Strategies: Problem Focussed and Emotion Focussed, Effects of Stress.

UNIT-IV : *Significance of Statistics* : Mean, Standard Deviation, Correlation. Significance of Difference Between Means (Correlated and Uncorrelated).

Note : The use of non-programmable calculators and statistical tables is allowed in the examination.

PSYCHOLOGY PRACTICALS

Max. Marks : 20

Time : 3 Hours.

Four practicals have to be performed out of the following :

1. The use of Biofeedback.
2. Presumptive Stressful Life Event Scale.
3. Adjustment Inventory.
4. Mental Health Inventory.
5. Sentence Completion Test.
6. Word Association Test.

Suggested Readings :

1. Carson, R.C.; Butcher, J.N.; and Mineka, S. (2003). *Abnormal Psychology and Modern Life*, New York : Pearson Education.
2. Davison, G.C. and Neale, J.M. (1998) . *Abnormal Psychology*, New York : John Wiley and Sons.
3. Feldman, R.S. (2014). *Understanding Psychology*, New Delhi : Tata McGraw Hill.2.
4. Garrett, H. E. (1966) . *Statistics in Psychology and Education*, New Delhi : Vakils, Feffer, and Simons.
5. Guilford, J.P., and Fruchter, B. (1981) . *Fundamental Statistics in Psychology and Education*. Singapore: McGraw Hill.
6. Sarason, B.R. & Sarason, I.G. *Abnormal Psychology: The Problem of Maladaptive Behavior* (11/e)_Prentice Hall of India.
7. Singh, A.K.(1986). *Tests, measurements and research methods in behavioural sciences*. Tata McGraw Hill.

.....

PSYCHOLOGY
SEMESTER - VI

Objectives :

- (I) This course will enable the students to get an introductory knowledge about Clinical psychology with emphasis on the dynamics of some of the behavioural disorders and therapies. Students will also have some knowledge about stress and coping; and will get acquainted with elementary inferential statistics.
- (II) Pedagogy of the Course Work :
- 80 % Lectures (including expert lectures).
20% assignments, discussion and seminars and tests.

PAPER: BEHAVIOURAL DISORDERS

| | | |
|---------------------|---|----------|
| Theory | : | 70 marks |
| Internal Assessment | : | 10 marks |
| Time | : | 3 Hours |

INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :

The syllabus has been divided into four units.

- (a) There shall be 9 questions in all. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 7 short answer type questions i.e. 2 marks of each. It shall carry 14 marks and shall be Compulsory question. Rest of the paper shall contain 4 Units. Each Unit shall have two questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit - 4 in all. Each question will carry 14 marks.
- (b) The practical will be of 20 marks.

UNIT-I : Anxiety Based Disorders viz. Phobia; OCD; Panic; Generalized Anxiety Disorder.
Conversion Disorders, Dissociative Disorders : Types, Symptoms and Etiology.

UNIT-II : *Mood Disorders* : Types, Symptoms and Etiology.

UNIT-III : *Schizophrenia Types* : Symptoms and Etiology.

UNIT-IV : *Psychotherapies* : Psychodynamic Therapy, Behaviour Therapy, Cognitive- Behaviour Therapy, Humanistic Therapy.

PSYCHOLOGY PRACTICALS

Max. Marks : 20

Time : 3 Hours.

Four practicals have to be performed out of the following :

1. Clinical Interview.
2. TAT.
3. Depression Inventory (Beck).
4. State Trait Anxiety Inventory
5. Self Efficacy
6. Aggression Scale

Books Recommended:**Suggested Readings :**

1. Carson, R.C.; Butcher, J.N.; and Mineka, S. (2003) : *Abnormal Psychology and Modern Life*, New York : Pearson Education.
2. Davison, G.C. and Neale, J.M. (1998) : *Abnormal Psychology*, New York : John Wiley and Sons.
3. Garrett, H. E. (1966) : *Statistics in Psychology and Education*, New Delhi : Vakils, Feffer, and Simons

Reference Books

1. Feldman, R.S. (2014) : *Understanding Psychology*, New Delhi : Tata McGraw Hill.2.
 2. Guilford, J.P. and Fruchter, B. (1981) : *Fundamental Statistics in Psychology and Education* Singapore: McGraw Hill.
 3. Sarason, B.R. & Sarason, I.G. : *Abnormal Psychology: The Problem of Maladaptive Behavior* (11/e)_ Prentice Hall of India.
-

COMPUTER SCIENCE**SEMESTER-V****SCHEME OF EXAMINATION**

| FIFTH SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|----------------|-------------|---------------------------------------|---------------|------|------|---------------|
| Paper – CS09 | Theory-A | Project Management | 3 | 30 | 5 | 35 |
| Paper –CS10 | Theory-B | Relational Database Management System | 3 | 30 | 5 | 35 |
| Paper – PCS05 | Practical-C | Practical Based on Paper – CS10 | 3 | 30 | -- | 30 |

Paper Code: CS09

Paper Title: Project Management

Objective: The student will come to know how a project needs to be established, organized, coordinated, controlled and evaluated.

- Note:
- The syllabus of this paper has been divided into four units.
 - Examiner will set total nine questions comprising two questions from each unit and one compulsory question of short answer type covering whole syllabi.
 - The students are required to attempt one question from each unit and the entire Compulsory question.
 - All questions carry equal marks, unless specified.

UNIT I**1. Concepts of Project Management :**

Concept of a project, Characteristic features of a project, Categories of project, Project life cycle phases, Project Management Concepts, Tools and Techniques for Project Management, Introduction of Computerised project management systems, Roles and Responsibilities of a Project Manager.

2. Establishing the Project :

Feasibility Report : Raw material survey, Demand study, Technical study, Location study; Financing Arrangements, Preparation of Cost Estimates, Finalisation of Project Implementation Schedule, Evaluation of the Project Profitability, Fixing the zero date.

UNIT II**3. Organizing human resource:**

Delegation, Project organization: Matrix, Task force and Totally projectized organization;

4. Organizing the Project:

Working of Systems, Design of Systems, Project Work System Design, Work Breakdown Structure, Project Execution Plan, Project Procedure Manual, Project Control System, Planning, Scheduling and Monitoring.

UNIT III**5. Project Directions, Coordination and Control:**

Project Direction, Communications in a Project, Project Coordination, Project Control, Scope/Progress Control, Performance Control, Schedule Control, and Cost Control.

6. Project Management Performance:

Performance Indicators, Performance Improvement, Project Management Environment.

UNIT IV**7. Report Writing - I:**

Characteristics of Reports, Importance of Reports, Types of Reports, Structure and layout of Reports: front matter, main body, back matter; Preparatory Steps to Writing Reports: Evaluation of material, Note making, Organising material, Principle of organisation, Making outline

8. Report Writing- II:

Elements of Style; Use of Illustrations: types; Writing the Report: Rough draft, Process of writing, Order of writing, Final draft, Check list for reports; Specimen Reports: technical report;

REFERENCES

1. Choudhary, S., 1988 : Project Management, Tata McGraw-Hill Publishing Company Limited, 1988 (Recommended as a text-book for the syllabus contents upto Unit III).
2. Sharma, R.C., and Krishna Mohan, 1996 : Business Correspondence and Report Writing, Second Edition, Tata McGraw-Hill Publishing Company Ltd., 1978 (Recommended as a text-book for the syllabus contents for Unit IV).
3. Gopalakrishnan, P. & Rama Moorthy, V.E., 1993. : Text Book of Project Management, Mac Millan India Ltd.
4. Harrison, F.L., 1992. : Advanced Project Management, A Structured Approach (Third Edition), Metropolitan.
5. Srinath, I. S., 1989. : PERT & CPM, Principles and Applications, Third Edition, Affiliated East-West Press Pvt. Ltd.
6. Rodrigues, M.V., 1992 : Effective Business Communication, Concept Publishing Company, 1992.

Paper Code: CS10

Paper Title: Relational Database Management System

Objectives: This course will enable the student to get well versed with the SQL and PL/SQL concepts.

- Note:
- (i) The syllabus of this paper has been divided into four units.
 - (ii) Examiner will set total nine questions comprising two questions from each unit and one compulsory question of short answer type covering whole syllabi.
 - (iii) The students are required to attempt one question from each unit and the entire Compulsory question.
 - (iv) All questions carry equal marks, unless specified.

UNIT I

1. Interactive SQL : SQL commands; Data Definition Language Commands; Data Manipulation Language Commands; Data types, Insertion of data into the tables; Viewing of data from the tables; Conditional viewing of data; Deletion operations; Updating the contents of the table; Modifying the structure of the table; Renaming table; Destroying tables.

2. Data Constraints: Types of Data Constraints; Column Level Constraints; Table Level Constraints; Null value concepts; The UNIQUE Constraint; The PRIMARY Constraint; The FOREIGN key Constraint; The CHECK Constraint; Viewing the User Constraint.

UNIT – II

3. SQL Operators and Functions: Arithmetic operators, Logical operators, Range searching, Pattern matching; Using DUAL, SYSDATE; SQL Functions: Group, Scalar, Aggregate, Numeric, String and Date Functions.

4. Grouping data from tables in SQL : GroupBy , Having clause, Subqueries, Collating Information: Equi Joins, Cartesian Joins, Outer Joins, Self Joins; SET Operators: Union, Intersect, Minus; Nested Queries.

UNIT III

5. Indexes: Creation, Types, Dropping an index; Introduction to Views, Manipulating the Base table(s) through views, Rules of DML Statements on Join Views, Dropping a View, Inline Views, Materialized Views.

6. Sequences: Creation, Reference and Alteration; Database Security and Privileges: Grant Command, Revoke Command, Application Privileges Management, COMMIT and ROLLBACK.

UNIT IV

7. PL/SQL-I: Introduction to PL/SQL, The Advantage of PL/SQL, PL/SQL block structure, PL/SQL Architecture, Fundamentals of PL/SQL, PL/SQL Data types, Variables and constants, Scope and visibility of a variable, Assignments and expressions, Operator precedence, Conditional and iterative control, SQL within PL/SQL, writing PL/SQL code.

8. PL/SQL-II: Cursor management in PL/SQL, Cursor manipulation, Implicit and Explicit cursor attributes, Exceptional Handling, Subprograms in PL/SQL, Procedure, Functions, and Triggers.

References:

1. Ivan Bayross: SQL, PL/SQL the programming language of oracle, BPB publications.
2. Kevin Loney :Oracle Complete Reference, McGraw-Hill
3. James T. Perry & Joseph G. Lateer: Understanding Oracle, BPB
4. Mukhi, Vijay 1992: Mastering Oracle 6.0, BPB Publications.

Paper – PCS05 : Practical Based on Paper CS10 – Relational Database Management System.

.....

**COMPUTER SCIENCE
SEMESTER-VI**

SCHEME OF EXAMINATION

| FIFTH SEMESTER | | | Exam . Hrs | Ext. | Int. | Max. Marks |
|----------------|-------------|---------------------------------|---------------|------|------|---------------|
| Paper – CS11 | Theory-A | E-Commerce | 3 | 30 | 5 | 35 |
| Paper –CS12 | Theory-B | Web Programming | 3 | 30 | 5 | 35 |
| Paper – PCS06 | Practical-C | Practical Based on Paper – CS12 | 3 | 30 | -- | 30 |

Paper Code: CS11

Paper Title: E-Commerce

Objective: To develop an understanding of concepts of E-Commerce

- Note:
- (i) The syllabus of this paper has been divided into four units.
 - (ii) Examiner will set total nine questions comprising two questions from each unit and one compulsory question of short answer type covering whole syllabi.
 - (iii) The students are required to attempt one question from each unit and the entire Compulsory question.
 - (iv) All questions carry equal marks, unless specified.

UNIT I

- 1. E-Commerce:** Introduction, History, Motivation for E-Commerce, Types of Ecommerce, Advantages, Limitations, E-Commerce applications : Business-to-consumer, Business-to-Business, Consumer-to-Business, Consumer-to-Consumer, Business-within-Business.
- 2. Internet and www:** Introduction, History, Benefits of www, Internet Service Providers, Web and Electronic commerce, Web architecture and its components, Interactive web applications, Web and database integration, Web software development tools, Search engines.

UNIT II

- 3. Website designing and hosting:** Life cycle of website building, Website content and traffic management, Working of ISPs, Choosing an ISP, Choosing and registering a domain name.
- 4. Implementation and Maintenance of E-Commerce:** Implementation strategies, Maintenance strategies, Legal and Ethical issues in E-commerce.

UNIT III

- 5. Payment Systems :** From Barter to money, Requirements of Internet-based payments, Electronic payment media : Credit cards, Debit cards, Smart cards, e-wallets, Issues and implications of payment systems, Latest trends in payment systems.

6. Marketing on the Internet: Internet marketing techniques and cycles, Attracting and Tracking customers, Pros and cons of online marketing.

UNIT IV

7. Firewalls and Network Security: Types of firewall, Gateways, Proxy Servers and its advantages and disadvantages; Transaction Security: Types of transaction, Requirements for transaction, Encryption: asymmetric and symmetric encryption; Digital signatures, Digital certificates, Implementation and management issues.

REFERENCES :

1. Kalakota Ravi & Andrew B. Whinston, 1997 : Electronic Commerce, A manager's Guide, Person Education.
2. Elias M. Awad, 2006 : Electronic Commerce from vision to fulfillment, PHI.
3. P.T. JOSEPH, S.J., 2015 : E-COMMERCE, Fifth Edition: AN INDIAN PERSPECTIVE, PHI.
4. PKenneth C, Landon, Carol Guercio Traver, 2010 : E-Commerce – Business Technology society, Pearson Education.

Paper Code: CS12

Paper Title: Web Programming

Objectives: *This course will enable the student to build and publish web sites using HTML, CSS, JavaScript and PHP.*

- Note:
- (i) The syllabus of this paper has been divided into four units.
 - (ii) Examiner will set total nine questions comprising two questions from each unit and one compulsory question of short answer type covering whole syllabi.
 - (iii) The students are required to attempt one question from each unit and the entire Compulsory question.
 - (iv) All questions carry equal marks, unless specified.

UNIT - I

1. Basic Terminology : Web Server; Web Browser, Understanding Communication between a Browser and Web Server, Webpage, Website, Static Website, Dynamic Website, Internet, Intranet, Extranet, WWW, URL.

2. HTML : HTML Program Structure, Paragraph Breaks, Line Breaks; Emphasizing Text: Heading Styles, Drawing Lines; Text Styles :Bold, Italics, Underline; Other Text Effects: Centering of text and images etc; Lists: Unordered List, Ordered Lists, Definition lists; Adding Graphics to HTML Documents using the Border, Width, Height and Align; Tables: Caption Tag, Width, Border, Cell padding, Cell spacing, BGCOLOR, COLSPAN and ROWSPAN Attributes.

UNIT - II

3. Linking Documents : Anchor tag, External Document References, Internal Document References and Image Maps; Frames: Introduction to Frames: The <FRAMESET> tag, The <FRAME> tag, Targeting Named Frames

4. DHTML: Introduction to Cascading Style Sheets (CSS), Style tag, Link tag, Types of CSS: In-Line, Internal, External; Forms: Attributes of Form element: Input element, Text Element, Password, Button, Submit Button, Reset Button, Checkbox, Radio, TextArea, Select and Option.

UNIT - III

5. JavaScript: Introduction and Features of JavaScript, Writing JavaScript into HTML, Tokens, Data Types, Variables, Operators, Control Constructs, Strings Arrays, Functions, Document Object Model, CoreLanguage Objects, Client Side Objects, Event Handling, Applications related to client side formvalidation, Built-In Objects in JavaScript: String Object, Math Object, Date Object;

UNIT - IV

6. Introduction to PHP : PHP Installation and Configuration; Naming files, Comments, Variables, Operators, Arrays, Flow Control Structures, More language basics; User-defined functions; Input validation, Working with Mathematical, String, Date and Time functions

REFERENCES

1. Bayross, Ivan : Wen enabled commercial applications development using HTML, Javascript , DHTML and PHP by BPB, Latest reprint
2. Wanger&Wyke : Java Script Unleashed, Pearson Education, New Delhi.2
3. Thomas Powell : HTML & CSS: The Complete Reference
4. John Pollock : JavaScript, A Beginner's Guide
5. Steven Holzner PHP: The Complete Reference, Tata McGraw Hill
6. Kelvin Tetroi: Programming PHP , O'Reilly Media

Paper – PCS06 : Practical Based on Paper CS12 – Web Programming.

HOME SCIENCE**B.A./B.Sc. (GENERAL) THIRD YEAR EXAMINATION, 2020-21
SEMESTER- V****Scheme of Examination**

| Theory | | | | | | Practical | | | | |
|----------------|---------------------------------------|----------------------|---------------------|-----------------------|------------------|----------------------|---------------------|-----------------------|------------------|--------------------|
| <i>Sr. No.</i> | <i>Name of Paper</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks allotted</i> | <i>Int. Ass.</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks Allotted</i> | <i>Int. Ass.</i> | <i>Total Marks</i> |
| 1. | Food, Nutrition and Child Development | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total : | | | | | | | | | | 100 |

Note : 1. Each Practical group will have 12-15 students.

FOOD, NUTRITION AND CHILD DEVELOPMENT (Theory)

| | |
|-------------------|----------------------------|
| Max. Marks | : 50 |
| Theory | : 45 |
| Int. Ass. | : 05 |
| Hours | : 06 Hours per week |

INSTRUCTIONS FOR THE PAPER SETTER:

The question paper will consist of five Sections: A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES:

Candidates are required to attempt one question each from the Sections A, B, C and D of the question paper and the entire section E.

SECTION-A

- I. Importance and Functions of Food :
(a) Physiological; (b) Psychological; (c) Social
- II. Food Constituents : Carbohydrates, Proteins and Fats—Functions, sources, requirements and deficiency.
- III. Methods of Cooking : Boiling, Steaming, Frying, Baking, Roasting and Microwave cooking.

SECTION B

- IV. Functions, recommended allowances, deficiency, excess and food sources of the following nutrients:
(a) Vitamins—A, B₁, B₂, B₃, Vit. C, Vit. D.
(b) Minerals— Calcium, Phosphorous, Iron, Sodium, Iodine.

- V. Balanced Diet
- (a) Concept
 - (b) Classification of food based on the five/seven food groups.

SECTION-C

- VI. Pregnancy
1. Signs and symptoms of pregnancy.
 2. Discomforts and Complications.
 3. Care during pregnancy
 4. Preparation for delivery
 5. Post natal care- Importance of breast feeding, bottle feeding, weaning and different types of weaning foods
- VII. Methods of family planning

SECTION D

- VIII Definition and importance of Child Development.
- (a) Differences between growth and development; (b) Principles of development.
- IX Developmental tasks at various stages of development

PRACTICAL

| | |
|-------------------|----------------------------|
| Max. Marks | : 50 |
| Practical | : 45 |
| Int. Ass. | : 05 |
| Hours | : 03 Hours per week |

- I. Preparation of following dishes using various methods of cooking
 - a. Soups- stimulating and nourishing (any two)
 - b. Snacks- savory and sweet (two each)
 - c. Salads- decorative and nutritious (two each)
 - d. Bakery items (any two)
 - e. Preparation with cereal pulse combination (any two)
 - f. Desserts (any two)
- II. Hot and cold beverages (at least two each).
- III. Preparation of low cost nutritious recipes (at least two)
- IV. Recipes- enhancing nutritive value (at least two)

V. Project

- Survey of Food Labels in order to study their nutritional facts
- OR
- Survey of eating habits of five students

Reports to be submitted**List of Equipments for a practical group of 12-15 students :**

| | |
|---------------------------------|----------|
| 1. Gas Burners | 15 |
| 2. Cooking Range | 01 |
| 3. Ovens | 05 |
| 4. Mixers and Grinders | 05 |
| 5. Weighing Scales (for food) | 05 |
| 6. Gas Lighters | 15 |
| 7. Dustbin-Small | 15-Big-1 |
| 8. Vegetable Racks | 02 |
| 9. Plate Racks | 15 |
| 10. Storage Jars and Containers | 25 |
| 11. Refrigerator | 01 |
| 12. Icing Sets | 05 |

Cooking Utensils

| | |
|--------------------|----|
| 1. Pressure Cooker | 15 |
| 2. Patila with Lid | 30 |
| 3. Kadahai | 15 |
| 4. Parat | 15 |
| 5. Tawa | 15 |
| 6. Chakla-Belna | 15 |
| 7. Grinding Stone | 15 |
| 8. Saucepans | 15 |
| 9. Karchhi | 15 |
| 10. Palta | 15 |

| | |
|---------------------------|----|
| 11. Poni | 15 |
| 12. Soup Strainers | 15 |
| 13. Sieves | 15 |
| 14. Enamel Bowls | 15 |
| 15. Baking Trays and Tins | 15 |
| 16. Cookie Trays | 15 |
| 17. Serving Trays | 15 |
| 18. Cutting Knives | 15 |
| 19. Peellers | 15 |
| 20. Jelly Moulds | 15 |

Crockery and Cutlery

| | |
|-------------------------------|----|
| 1. Full Plates | 30 |
| 2. Half Plates | 30 |
| 3. Quarter Plates | 30 |
| 4. Cups & Saucers | 30 |
| 5. Soup Bowls | 30 |
| 6. Glasses | 36 |
| 7. Katoris (Vegetables Bowls) | 30 |
| 8. Dongas | 30 |
| 9. Forks | 30 |
| 10. Table Knives | 30 |
| 11. Table Spoons | 48 |
| 12. Tea Spoons | 48 |
| 13. Serving Spoons | 24 |
| 14. Tea Sets | 05 |
| 15. Dinner Sets | 05 |
| 16. Borosil Bowls | 15 |
| 17. Casseroles | 15 |

HOME SCIENCE**B.A./B.Sc. (GENERAL) THIRD YEAR EXAMINATION, 2020-21
SEMESTER- VI****Scheme of Examination**

| Theory | | | | | | Practical | | | | |
|----------------|---------------------------------------|----------------------|---------------------|-----------------------|------------------|----------------------|---------------------|-----------------------|------------------|--------------------|
| <i>Sr. No.</i> | <i>Name of Paper</i> | <i>No. of Papers</i> | <i>Time in hrs.</i> | <i>Marks allotted</i> | <i>Int. Ass.</i> | <i>No. of Papers</i> | <i>Time In hrs.</i> | <i>Marks Allotted</i> | <i>Int. Ass.</i> | <i>Total Marks</i> |
| 1. | Food, Nutrition and Child Development | 1 | 3 | 45 | 05 | 1 | 3 | 45 | 05 | 100 |
| Total: | | | | | | | | | | 100 |

Note : 1. Each Practical group will have 12-15 students.

FOOD, NUTRITION AND CHILD DEVELOPMENT (Theory)

| | |
|-------------------|----------------------------|
| Max. Marks | : 50 |
| Theory | : 45 |
| Int. Ass. | : 05 |
| Hours | : 06 Hours per week |

INSTRUCTIONS FOR THE PAPER SETTER :

The question paper will consist of five Sections: A, B, C, D and E. Sections A, B, C and D will have **two** questions from the respective sections of the syllabus and will carry 9 marks each. Section E will consist of objective type questions covering the entire syllabus uniformly and will carry 9 marks.

INSTRUCTIONS FOR THE CANDIDATES :

Candidates are required to attempt one question each from the Sections A, B, C and D of the question paper and the entire section E.

SECTION-A**I Food Preservation :**

- (a) Definition, Importance & Principles.
- (b) Causes of food spoilage.
- (c) Household methods of food preservation—sun drying, use of salt, oil, spices, sugar & chemical preservatives.

II Meal Planning:

- (a) Definition
- (b) Importance
- (c) Principles of meal planning (physiological, psychological and economical)

SECTION-B

- III. Therapeutic Diets & Modification of Normal Diet:
 (a) Principles of therapeutic diets.
 (b) Concept of soft, bland, liquid diets with examples.
- IV. Therapeutic diets in the following conditions with principles involved :
 (a) Fever
 (b) Diarrhoea
 (c) High blood pressure/ Hypertension
 (d) Diabetes Mellitus.

SECTION-C

- VI. Emotional Development of the child from infancy up to 6 years
 (a) Characteristics of children's emotions.
 (b) Common childhood emotions—Fear, anger, jealousy, curiosity, love and affection.
- VII. Language Development.
 (a) Stages of language development.
 (b) Factors affecting language development

SECTION-D

- VIII. Play
 (a) Significance of play.
 (b) Types of play.
 (c) Play materials/equipment required for various age groups.
- IX. Common behavioural problems and their remedies—Bed wetting, thumb sucking, nail biting, temper tantrums.

PRACTICAL

| | |
|-------------------|---------------------------|
| Max. Marks | 50 |
| Practical | 45 |
| Int. Ass. | 05 |
| Hours | :03 Hours per week |

I Planning & Preparation of diets for the following:

- (a) Pre-Schooler;
 (b) School going/packed lunch;
 (c) Adolescent;
 (d) Pregnant and lactating woman.

II Cooking and serving of the following : Soft, liquid, fluid diets (two each)

III Preservation- preparation of pickle, jam, chutney and squash (one each)

IV Project

- Safety measures of play equipment

OR

- Visit to a nursery school

OR

- Preparation of any one play item

Reports to be submitted

- **List of Equipments for a practical group of 15 students : SAME AS OF SEMESTER V**

Reference Books :

1. *Applied Nutrition*, R. Rajalakshmi, Oxford & IBH Publishing Co. Pvt. Ltd., N. Delhi.
2. *Principles of Nutrition-Dietetics*, Dr. M. Swaminathan, The Bangalore Printing and Publishing Co. Ltd. 88, Mysore Road, Bangalore.
3. *Food & Nutrition, Educational Planning Group*, Arya Publishing House, Karol Bagh, New Delhi-5.
4. *Normal and Therapeutic Nutrition*, Br Corinne, H. Robinson, Marlyna R. Lowler, Macmillan Publishing Co., New York, Collier Macmillan Publishers, London.
5. *Textbook of Nutrition and Dietetics*. Kumud Khanna, Sharda Gupta, Santosh Jain Passi, Rama Seth, Ranjana Mahna, Seema Puri. 2nd Edition. Elite Publishing House Pvt Ltd 2013
6. *Diet Nutrition and Health*. Rakesh Mittal
7. *Diet and Nutrition*. Huma Zaidi
8. *Nutritive Value of Indian Foods*, G. Copalen, B.V. Rama Sastri, and S.C. Balasubramaniam, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad, India.
9. *Human Development*, Graing J. Graig, 5th Edition, 1989/Prentice Hall, Englewood Cliffs, New Jersey, 07632.
10. *The Modern Parents Guide to Baby & Child Care-Violet*, Broadribb, R. N.H.S. & Henry F. Loc. M.E., 1973 Macdonald's and Jane's London.
11. *Good House Keeping's Baby Book V—The Good Housekeeping*, 12th ed., 1959.
12. *Child Psychology*. Dr. Nisha Sharma
13. *These are your children—Dadys*, Gardner Jenkins and Helen Shacter, 4th ed., Scott, Foresman and Co., Glenview Illinios.
14. Hurlock, E.B., *Child Development*, 6th ed., McGraw Hill International Book Company, 1978.

PANJAB UNIVERSITY

Outlines of tests, syllabi and courses of reading in the subject of Functional English in Semester System (Vocational Undergraduate Level examination (2019-2020))

VOCATIONAL COURSES IN FUNCTIONAL ENGLISH AT THE UNDERGRADUATE LEVEL

Revised syllabus

1. **Subject Title** : Functional English (15 weeks/semester)

2. **Objectives:**

Optional course in functional English is a job-oriented course. Its main objective is to motivate fresh graduates to seek self appointment as well as to inculcate in them the spirit of entrepreneurship. The course is intended to break new grounds in teaching of purposeful Functional English thereby offering more scope in comparison to the existing Optional English courses at the undergraduate level. It aims at training enterprising youngsters in communication at various levels by providing proficiency in Speech Skills, Oral Skills, Writing Skills and Study skills. Additionally, being broad-based, it aims to make youngsters self-sufficient, self-reliant and confident so that they can opt for their own enterprise or take up employment in new upcoming areas.

3. **Job Potentials:**

A. Establish Private Enterprise like:

- a) Tutorial Centers
- b) Consultancy Services
- c) Human Resource centers for Service Industry
- d) Video Filming centers
- e) Small Radio Programme Production Centers
- f) Print and Graphic Art Centers

B. Seek Employment as:

- a) Interviewer with TV/Radio/Newspaper
- b) News Reader/Scriptwriter with TV/Radio/Newspaper
- c) Compere with TV/Radio
- d) Commentator with TV/Radio
- e) Announcer with TV/Radio
- f) Documentary Narrator/script writer with TV/Radio
- g) Feature Writer with Newspaper
- h) Receptionist (with Govt. such as Public Relations Dept. or with Private Sector such as Tourism Industry)
- i) Secretary (with similar to (h)).
- j) Desk officer/Office Assistant

k) Sales Representatives (with Electrical/Electronic Good's companies and similar set-ups)

4. Permissible combination of subjects including prerequisite of admissions:

Admission pre-requisite: Students should have studied English as one of the subjects at the plus 2 level. Preference should be given to English medium students.

Combination of Subjects: Of the other two subjects, one should necessarily be English and the other any subject.

5. Syllabus components:

B.A.Part-I

Semester I : Speech Skills
Semester II : Writing Communication Skills and Study Skills

B.A.Part-II

Semester III : Radio journalism +Broadcast Presentation.
Semester IV : T.V Journalism:

B.A.Part-III

Semester V : Print Journalism
Print journalism I +Print journalism-II
Semester VI : Office communication for business:
Office communication for the Business-I +
Office Communication for Business-II.

Unit Cost for 30 students :

Books/journals : Rs 10,000/-(Rs. Ten Thousand)

Equipment : Language Laboratory [Rs. 10,00,000/ - (Rs. Ten Lakh)
for Studio,Video,TV,VCP etc.]

Building: 3 Lecture Rooms.

1 Laboratory

1 Library

6. This is a self-sufficient course. However, higher studies can be pursued in the other two subjects offered by the students.

7. Each paper separately states the objectives, course contents, suggestions for teaching/testing mode of examination and bibliography.

FUNCTIONAL ENGLISH

B.A.Part I

Semester I 12 periods per week including theory and Practical

Semester II 12 periods per week including theory and Practical

| Paper | Subject | Marks |
|-------------------------------|---|----------------|
| Communication Skills: | | |
| Semester I | Speech Skills | 45 (Theory) |
| | Oral Communication Skills | 45 (Practical) |
| Writing Communication Skills: | | |
| Semester II | Writing Communication Skills and Study Skills | 90 (THEORY) |
| Total Marks | | 180 |

B.A.Part II

Semester III 12 periods per week including theory and Practical

Semester IV 12 periods per week including theory and Practical

| Paper | Subject | Marks |
|-------------------|---------------------------------------|--------------------------|
| Radio Journalism: | | |
| Semester III | Radio Journalism | 45 (Theory) |
| | Broadcast Presentation | 45 (Practical) |
| T.V.Journalism: | | |
| Semester IV | T.V.Journalism I T.V.Journalism II | 45(Theory) 45(Theory) |
| Total Marks | | 180 |

B.A.Part III

Semester V 12 periods per week including theory and Practical

Semester VI 12 periods per week including theory and Practical

| Paper | Subject | Marks |
|--|---|--|
| Print Journalism: | | |
| Semester V | Print Journalism I | 70 (Theory) |
| | Print Journalism II | 20 (Viva) |
| Office Communication for Business: | | |
| Semester VI | Office Communication for Business I Office Communication for Business II | 45 (Practical) 25 Viva 20 Training |
| On the job training : at one of the places given below | Total Marks | 180 |

Visit to: Radio Station, Tutorial Academy., Any Service Industry Centre, T.V.Station, Newspaper Office etc.

OUTLINE OF TESTS SYLLABI AND COURSES OF READING FOR FUNCTIONAL ENGLISH (SEMESTER SYSTEM) AT THE UNDER GRADUATE LEVEL EXAMINATION 2019-2020

SEMESTER I: Speech Skills

Theory:45 Marks

Practical:45 Marks

Objectives:

* To familiarize learners with the functioning of English - English sounds through listening in the Language Lab

* To enable learners to achieve accuracy in oral production by encouraging the use of the pronouncing dictionary

* To enable learners to achieve an optimum level of intelligibility and fluency in speech

* To enhance learners ability of communication in the spoken mode with accuracy and fluency for various functions

Course Contents:

| | |
|----------|--|
| Unit I | To be tested in Theory- phonetic symbols for Consonants, Vowels and Diphthongs and their place and name of Articulation. |
| Unit II | the Syllable: Definition, Types and Division of Syllabus |
| Unit III | Weak forms and constructions |
| Unit IV | Word stress |
| Unit V | Sentence Stress: Pause and Juncture |
| Unit VI | Intonation: Patterns of Intonation in simple sentence types |

Mode of Examination for Theory:

| | |
|----------|--|
| Unit I | Greeting/Introduction/Leave taking |
| Unit II | Making /Granting /Refusing requests |
| Unit III | Making inquiries/ Giving/Withholding information; Giving directions/withholding information. |
| Unit IV | Describing people, processes, procedures, objects; Narrating events |

| | |
|-----------|---|
| Unit V | Extending/Accepting/Declining Invitation |
| Unit VI | Making complaints and suggestions/Apologizing/Offering Excuses |
| Unit VII | Negotiating;Persuading people/ Expressing Dissent and Caution. |
| Unit VIII | Offering Emotional Support/ Motivating People/ Expressing Condolences |
| Unit IX | Making Announcements/Public Addressing |

Suggestion for teaching:

Emphasis is to be placed on the use of spoken language rather than on theory. Once the learners are familiar with the speech sounds, patterns of stress and intonation, they must be given intensive practice in these areas.

It must be made clear that the model of pronunciation is not strictly RP, learners should follow the dictionary as closely as possible but whenever there are differences between RP and Sound used in Indian English, and these differences can be accepted if they do not interfere with intelligibility and clarity of speech. (Teachers may not insist on a perfect articulation of RP sounds).

Use one of the Modes: Face to face or Telephone or interaction with public for each Unit

Use Styles: Informal and formal for each unit

Listening comprehension should be given due emphasis and should be tested in practical examination.

Mode of examination

Written : 45 Marks

Practical : 45 Marks

Int. Assessment : 10 Marks

Total : 100 Marks

[Written giving symbols for sounds, breakings words into syllables, Marking stress in words and sentences, etc.

Practical Speaking and listening tasks. Without transcribing them

Bibliography

Allen, W.S. Living English speech , Orient Longman, London, 1968.

Balasubramanian. T A Text Book English Phonetics for Indian Students,
Macmillan India Ltd., Madras 1981.

Bansal, R.K and Spoken English for India, Orient Longman,

- J.B Harrison Madras, 1972.
- Hornby.A.S. Advanced Learner Dictionairy. Fifth edition, Oxford University Press, Oxford,1996.
- Jones, Daniel English Pronouncing Dictionairy ,14th Ed., University Book Stall, New Delhi, 1991.
- Jones, Leo: Functions of English Teachers Book, Cambridge University Press, Cambridge 1981.
- Klippel, Frienderike Keep Talking: Communication Fluency Activities for language Teaching, Cambridge University Press, Cambridge, 1984.
- Lynch, T. Study listening, Cambridge University Press, 1983.
- Paul, R.Timm Cliff Lend Me Your Ears, New Jersey,1980.
- Wolvin, A.D. Listening Cambridge Proficiency Examination Practice listening, Cambridge University Press, Cambridge, 1987.
- Jones, Danial. An Outline of English Phonetics, Ludhiana, Kalyani Publishers.1979.
- Krishnamurthy, N & T. Sriraman Teaching Spoken English and Communicative Skill. (Ed) (Resource book for teachers series).
- O'Connor, J.D Better English Pronunciation Oxford University Press, Oxford, 1991.
- Sethi.J. & P.V..Dhamija A Course in Phonetics & Spoken English , Prentice Hall, N.Delhi,1992
-

SEMESTER II Writing: Communication Skills and Study Skills

Written: 90 Marks
 Int. Assessment: 10 Marks
 Total: 100 Marks

Objectives:

To enhance learners' ability of communication in the written mode with accuracy and fluency

To train learners in the use of specific formats of written discourse

To introduce learners to the fundamentals of study skills

To familiarize learners with the study skills to collect, classify & retrieve information from different sources and to record and store it

| Course Contents: | | Marks |
|-------------------------|--|--------------|
| Unit I | Note making/Précis writing | 15 |
| Unit II | Paragraph writing: Types, Formats and structural organization of different types of paragraphs: Informative, Descriptive, Narrative, Argumentative | 10 |
| Unit III | Letter writing: Formal and Informal | 10 |
| Unit IV | Transcoding information <ul style="list-style-type: none"> - Dialogue to Paragraph - Paragraph to Dialogue - Diagram to Paragraph | 15 |
| Unit V | Report writing for newspapers and magazines | 10 |
| Unit VI | Consulting <ul style="list-style-type: none"> - Dictionaries to find the meanings, spellings, pronunciations and usage of words - Thesaurus to find words with similar and opposite meanings | 15 |
| Unit VII | Classifying books subject wise and preparing bibliography | 5 |
| Unit VIII | Interpreting information presented in charts, graphs and tables | 10 |

Suggestions for teaching:

Unit I: This unit aims at honing the reading skills of the students.

Unit II: This unit aims at helping students develop and organize thoughts and ideas.

Unit III: This is a general course in letter writing. Features of formal and informal letters are to be highlighted with no particular areas in mind.

Unit IV: This unit aims at familiarizing learners with the skills of transferring information from one mode to another and this to prepare them for tasks to be assigned in the areas of office communication for Business and Media only. The basics are to be taught.

Unit V: In this unit, teachers should use authentic material such as press notes, newspapers, magazines, CDs etc. Besides taking care of learners' study skills, the component will indirectly enrich learners' general awareness of current affairs, economic affairs, sport business, politics etc.

Reference Material: (To be subscribed by the college)**Magazines:**

1. Outlook
2. Sports Week
3. India Today
4. Business Today
5. Business India

Newspapers:

1. Pioneer
2. The Times of India
3. The Economic Times
4. Financial Express
5. Asian Age
6. The Hindu
7. The Statesman

OUTLINE OF TESTS SYLLABI AND COURSES OF READING FOR FUNCTIONAL ENGLISH (SEMESTER SYSTEM) AT THE UNDERGRADUATE LEVEL EXAMINATION 2019-2020

SEMESTER III

Paper : Radio Journalism + Broadcast Presentation:

- To acquaint learners with the different mechanisms of radio broadcast.
- To train learners in Script writing for different genres of Radio broadcast.
- To help learners build their best voice by acquainting them with the elements of voice and providing training in it.
- To help learners to identify their speech problems and overcome them.
- To sensitize learners to body movements, demeanor and gestures involved in TV presentation.

Course Content :

Unit I: Introduction Broadcasting:

- The concept of Mass Communication: Its Status & a Brief introduction to its different Mediums (Print, Radio, TV, Films)
- Role of Print as Means of Communication
- Role of radio as a Means of Communication
- Role of TV as Means of Communication
- The concept of Network Societies: The Expansion of radio & TV Network in India (Educational TV, Satellite TV, Doordarshan).

Unit II: Interview:

- Reporting Speed and Accuracy
- Contacts, Faithful Reporting
- Building Sources-Interviews-'Foners'

Unit III: News Bulletin:

- Kinds of Bulletin
- Compilations of Bulletin
- Structural Languages
- News Values: News Selection and Presentation
- Sources of News
- Basic Guidelines for News Writing: Words Economy-Time Frame-Figures,- Devices
- News Writing: Agency copy, radio copy, Edition

Unit IV: Announcements:

- Possible purposes for announcements (Emergencies-Death of VVIPs, Traffic Blockades, Economic Crises-WeatherChances etc.)
- Announcing for Promos, language and style, creativity within time constraints.
- Art of Voice Modulation for different types of announcement

Unit V: Commentary:

- Commentary in different situations and for different purposes

- Research, Survey and Studies
- Language and Style

Unit VI: Comparing:

- Comparing in different situations and for different purpose
- Role of Wit and Humor in Compering.
- Language and Style

Unit VII: Concept of Voice Training:

- Elocution
- Inventory of Voice, Audition Analysis
- Common Problems of Broadcast Voice

Unit VIII: Training in developing one's Best Voice:

- The organs of speech and their mechanism
- The Physical Structure
- Breathing Types
- Note Production
- Tone Production

Unit IX: Training in developing one's Best Speech:

- Revision of Course Component: Speech Skills
- Word and Discourse Production
- Copy Techniques, marking copy
- Presentation Scripts, Presentation Based on Notes.

Note: The last objective and the last mention point under suggestion for teaching to be taken up with Broadcast Journalism TV (1) and (2) in the III year.

Suggestions for teaching :

During the course of study, the teachers need to be very resourceful. This has to be done in the form of organization field trips to make learners work in authentic setting and to produce a lot of real materials i.e. scripts, tapes etc. to be used as teaching materials. The teacher's creativity will be in the fore while organizing practical activities for learners.

Field work:

Visit to sites of different events by learners is required in order to cover the happenings in their practical work.

Visit to the radio Station by learner is desirable to help learners observe presentations to acquire related skills.

The teacher needs to give a lot of practical work by making learners participate in Physical exercises, making text, giving oral presentations and facing the camera through simulation.

Mode of Examinations:

Written: 45 marks

Practical: 45 marks

Total 90

(Oral presentation in different situations i.e. banks, airports, inquiry; formal presentation during exams; a broadcaster, voice testing)

Bibliography:

- Joshi, H.M. : Training on Radio News Presentation in English for ATR news readers/editors/correspondents, Indian institute of Mass Communication, New Delhi, 1996.
- Maeseneer, Paul De : Here's the News: A Radio News Manual, Asian Book Pvt. Ltd., New Delhi, 1987.
- Shrivastava, K.M : Radio and TV Journalism, Sterling Publishers, New Delhi, 1989.Here is the News: The Story of News Services Division, All India Radio, New Delhi, 1992.
- Hagerman, W.L. : Broadcast Announcing, Prentice Hall Inc, New Jersey, 1993.
- Colsen, Greta. : Voice Production and Speech, Pitman & Sons Ltd, Toronto, 1973.
- Berry Cicely : Your Voice and How to Use it Successfully, George Harp & Co.Ltd, London, 1981.

SEMESTER IV

Paper : T.V. Journalism

Objectives: T.V. Journalism 1 & T.V. Journalism 2

- To acquaint learners with the lay-out, equipment and functioning of a T.V. station
- To train learners in scriptwriting for different genres of T.V. Broadcast.
- To sensitize learners to body movements, demeanor and gestures involved in T.V. presentation.
- To provide further practice in previously covered features of broadcast presentation.
- To familiarize learners with different genres of T.V. production with specific training imparted in script writing.
- To continue with all other features of Broadcast presentation.

Course Content:

Unit I: TV station and program Production

- Pre production: Techniques of Programme presentation and the criteria of selecting technique for presentation.
- Production and the Criteria of selecting Technique for presentation.
- Production: Studio Lay-out, Camera, production Control room, lighting system, Audio -System.
- Post Production : Editing.

Unit II: Interviews

- Interviews as a Mean of collecting information
- Types of Interviews
- Interviews in relation to purpose, situation interest & taste.
- Writing Questions
- Conducting the Interviews

Unit III: News Bulletin

- Defining News
- Types of News
- News gathering
- News Processing
- News Writing
- Writing for Voice-Overs
- Editing
- Bulletinizing News

Unit IV: Compering

- Note taking, Note Making, Referencing, Researching
- As Libbing
- Creating word images pertaining to various sense

Unit V: The Entire Paper B of Second year (Broadcast Representation)

- Voice Production
- Speech training
- Body language

Unit VI: Electronic Media and Job Opportunities

- Electronic Media : Vital elements in information technology.

- Satellite technology and Job opportunities at the Global Level
- Role of PrasarBharti and Broadcast Authority of India
- Scope of Script Writing skills in the 21st century- the Growth and Relevance of English/Regional/National and International level

Unit VII: Commentary

- Definition and Aims
- Components of a Commentary: Education and Research
- Attitude, Language Style
- Delivery

Unit VIII: Announcements

- Formats of Announcing Styles, Purpose, Situations, Time, Age, Pace and Pitch.
- Announcing Programmes
- Announcing Commercials
- Public Service Announcements
- Promos
- Kinds of Spot Productions

Unit IX: Documentary

- Definition and Aims
- Techniques of Writing for documentary
- Components of a documentary
- Language, style and format
- Characteristics of good documentary
- Types of Copies, TV Scripts, Scene-by-scene Scripts, Camera Scripts, Shooting Scripts

Unit X: Body Language

- Gestures/ Moments of Face, Lips, Eyes, Limbs before the Camera
- Aspects of Gait, Dress Sense, Grace and Demeanor

Suggestions for teaching :

1. During the course of study, the teacher needs to be resourceful in order to organize field trips to TV Programmes production centers. The teacher should be able to obtain scripts, tapes, etc. of authentic material to be used in the classroom. This can be recorded with the help of a VCR and can also be transcribed. The teacher must also be able innovative enough to construct activities such as simulation tasks for learners.
2. **Ref. Unit V:** The teacher must provide the students with plenty of opportunities to practice presentation of scripts/notes. This includes making learners participate in physical exercises, making texts, giving oral presentations and facing the cameras through simulation. The college must make provision for students to face the camera and rehearse presentation.

Mode of Examination:

Written : 45 marks

Practical : 45 marks

Bibliography :

- Bielek, Mark . : Television Production Today, NTC, Illinios, 1996.
- Cohler, David Keith. : Broadcast Journalism, Prentice Hall, New Jersey, 1985.
- Boretzky, R. & G. Kuzhelsov: Journalistic Work TV, International Journalist, Prague, 1981.
- Hagerman, W.L. : Broadcast Announcing, Prentice hall, Inc. New Jersey, 1993.
- Millerson, Gerald. : Video Film Production, Focal Press, London, 1987.
- Parthasarthy, Rangaswami : Here is the News, Sterling Publishers, New Delhi, 1994.
- Yorke, Ivor. : Television News, IVOR Yorke, Oxford, 1995.

OUTLINE OF TESTS SYLLABI AND COURSES OF READING FOR FUNCTIONAL ENGLISH (SEMESTER SYSTEM) AT THE UNDERGRADUATE LEVEL EXAMINATION 2019-2020

SEMESTER V

Paper : **Print Journalism**

Objectives:

- To generate awareness among learners of issues deserving reporting in print and to stimulate them to rebond environment in print.
- To familiarize learners with different aspects of print journalism, its formats, its avenues.
- To enable learners to write news stories from the stage of news gathering to editing to their final presentation.
- To familiarize learner with the lay-out, equipment and functioning of a newspaper/magazine production centre
- To enable learner to acquire the art and skills of feature writing to encourage freelancing among them.
- To generate awareness among learner of the aspects of graphic arts in Print Journalism.

Course content :

Unit I : **An introduction to Print Media**

- Print media and communication
- Definition of communication
- Scope of communication :Purpose and its forms

Unit II: **Reporting**

- Act of news gathering
- Sources of information
- News reporters, their organization and their responsibilities.
- Distinguishing factual News Reporting from interpretative and Analytical Reporting.

Unit III: **Investigative Journalism**

- Interview as a instrument of News gathering
- Types of interviews in Relation to purpose, situation
- Writing the questions
- Reporting from interviews- formats, styles and content

Unit IV: **Writing News Stories**

- Structures and formats of a News Story-the content of Inverted Pyramid pattern
- Essentials of News Writing: the headlines- the leads- the body and conclusion – the art and skills of writing for different purposes

Unit V: **Areas in News reporting**

- Prioritizing Issues and Aspects.
- Reporting on developments vs. reporting on Action
- Reporting obituaries, Weather, Sports, science, business, Art and culture, Education, Agriculture, fashion, community services, etc.

Unit VI: Editing

- Need for editing
- Editing different types of copies- copy reading symbols-style sheet
- Rewriting mofussil copy
- Pattern of headlines- headline Vocabulary and Grammatical use of abbreviations

Unit VII: Packaging stories

- Designing the Newspaper- types of pages, their status and functions - types of page make-up- tabloid vs. broadsheet,-mechanics of page make-up- functions, contents, and lay-outs of various pages.

Unit VIII: The Reader

- The discerning Eye of the News Person
- Understanding the Reader, the Rights of the Readers, the role of press council of India.

Unit IX: Feature Writing

- Defining a feature (a lyric in press)- the crafts of feature writing
- Distinguishing of a feature from other forms of Newspaper/Magazine writing. Researching before writing Titles and Leads-Packaging & feature and other ingredients, Areas for feature writing (middles, reviews)/ free lancing and feature writing

Suggestions for Teaching:

1. Students should be encouraged to make a comparative study of various newspapers and magazines in reference to specific topics and formats.
2. Students should be encouraged to rewrite published stories in an effort to improve upon them.
3. The spirits of enquiry should be generated among them so that they learn to collect first hand information for reporting.
4. Besides the use of authentic materials in the classroom, established journalists should be regularly invited to interact with students.
5. Students should be taken on fields trips to cover real life happenings in place residence and out of town.
6. Students' awareness of their environment occupies utmost important. In this reference, their general awareness can also be tested.

Mode of Examination:

| | |
|------------|----------|
| Written: | 70 marks |
| Viva Voce: | 20 marks |
| Total : | 90 marks |

Bibliography:

- Ahuja, B.N. and S.S. Chhabra : Reporting, Surjeet Publications, New Delhi, 1990.
- Campbell, Laurence R and R.E. Wolseley : How to Report and Write the News, Prentice Hall, York, 1961.

- Charnley, Mitchell, V : Reporting, Holt Rinehart and Winston, New Delhi, 1965.
- Copestake, T : Editing Super B, Focal Press Ltd., London, 1980.
- Critchfield, Richard P : The Indian Reporter's Guide, Allied Pacific, Bombay, 1962.
- Evans, Harold (Ed) : Editing and Design: A Five Volume Manual of English Typography and Layout, Holt Rinchart and Winsten, New York, 1973.
 1) Book One: Newsman's English
 2) Book Two: Handling Newspaper Text
 3) Book Three. News Headlines
 4) Book Four: Picture Editing
 5) Book Five. News paper Design
- George, T.J.S : News Editing, Indian Institute of Mass Communication, New Delhi, 1989.
- Lewis, James : The Active Reporter, Press Institute of India, Vikas Publications, New Delhi, 1969.
- MacDougall, Curtis D. : Interpretative Reporting, Macmillan, New York 1969.
- Taylor, Howard B. and Jacob Schorer : Copy Reading and News Editing, Prentice Hall, New York, 1955.
- Warren, Carl H. : Modern News Reporting, Harper, New York, 1973.
- Westley, Bruce : News Editing, Oxford Publishing Co., Oxford 1968.
A Manual for New Agency Reporters, IIMC, 1980.
- Allen John E. : Newspaper Design, William Heineman, Harper, London, 1947.
- Arnold, Edmund C. : Ink On Paper: A Handbook of Graphic Arts. Harper & Row, New York, 1972.
- p.30 : Book Reviewing, The Writer, Inc. Boston, 1945.
- Nicholas, Brian. : Features With Flair, Press Institute of India, New Delhi, 1972.

- Patterson, Helen M. : Writing and Selling Feature Articles, Prentice Hall, New York, 1950.
- Sindhvani, Trilok N. : News Paper Economics and Management, Ankur Publishing House, New Delhi, 1979.
- Steighelnan, M. : Writing the Feature Article , Macmillan, New York,
- Sutton, Albert A. : Design and Make- up of the Newspaper , Prentice Hall, New York, 1948.
- : Report of the Second Press Commission, 1982, Ministry of Information and Broadcasting, Govt. of India, New Delhi.
- : Proof Corrections for Printers and Others, Indian Standard Institute , Calcutta.

SEMESTER VI: Office Communication for Business

Objectives:

- To equip learners with language proficiency in Business/work situations particularly in spoken interaction
- To make learners aware of the special features of format and style of informal communication through various modes.
- To equip learners with techniques of written communication in business situations.
- To expand vocabulary and develop reading comprehension of material related to business.

Course content:

Unit I : Mode: Face to Face: Business Contacts

Interaction in Formal/Informal Situation: Greetings, replying to greetings, introduction of oneself and others.

Welcoming, bidding farewell, appreciating in an interview, talking about oneself, describing one's job, work place, likes and dislikes, future plans, describing one's strength and weakness, abilities and qualifications.

Unit II : Mode: Telephonic Interaction

Taking messages, making appointments, making enquiries regarding travel bookings, hotel bookings, services, business trading (stocks etc.), making orders, receiving orders, apologizing, complaining, replying to complaints, giving information.

Practice in telephoning techniques such as repeating numbers, spelling out names, giving information clearly, noting messages, etc.

Unit III: Mode: Face to Face Public Address: Dealing with Clients and Customers.

- Describing products and Services
- Describing Process
- Answering trade enquiries
- Persuading Clients
- Negotiating an Agreement

Unit IV: Mode: Public Address: Presentation

Mode : Public Interaction

Giving options, arguments, justifying, explaining, proposing, dissenting, summing-up, presenting a product (eg. Household appliance) or service (e.g. facilities provided by a hotel) in a clear persuasive manner with the help of illustrative material such as graphs, posters or charts.

Unit V: Business Correspondence

The format of business letters and faxes: Different types of formats, address, opening and closing, subjects, headings, sub-headings, numbering etc.

Scanning letters and faxes for specific information, acquiring familiarity with abbreviations and phrases commonly used in business correspondence.

Writing letters of applications with curriculum-vitae /resume letters of invitation, reply to invitation enquiry, reference, arrangements, announcing forthcoming events products, visits, making booking and arrangements for conference, trade fairs etc. complaints and replies of complaints, apologies, thanks,

Writing office memos and notes

Unit VI: Business Meetings

Writing notices, agendas, resolutions, minutes for business meetings, preparing notes for a meeting

Unit VII: Business Reports

- Independent reading of reports business and finance papers, reports on company performance, market survey, project reports, reports of achievements in the world of business by well-known business personalities, comparative progress of various enterprises etc.

- Summarization of main ideas of these reports, using the vocabulary from them and consulting the business English dictionary.

- Basic Report writing: Organizing information, structuring the report.

Field Work:

- Visit to the TV Station by learners for exposure to mechanism of TV Broadcast is desirable.
- Visit to the sites of different events by learners is desirable so as to a cover authentic happenings for practical work.

Suggestions for Teaching:

1. Role play and simulation of business situations may be used to train learners.
2. Listening may be practiced by playing tape-recorded material e.g Telephone conversations, recorded interviews, etc.
3. **For Unit III** - some real products can be described and learners may simulate buying-selling situations in which persuasive techniques can be practiced.
4. **For Unit IV-** the use of some visual aids, such as Flip Chart and overhead Projector may be encouraged to familiarize learners with these techniques of presentations.
5. Speaking may be tested through role-play, mock interview, giving a presentation. Listening may be tested by asking learners to listen and take down telephone message, short conversation, on business-related matters.
6. A wide range of business texts and correspondence may be taken from books on business English as well as from companies, offices newspapers and magazines.

Mode of Examination:

| | | |
|------------|------------|---|
| Written | : 45 marks | |
| Viva-Voce | : 25 marks | |
| On the Job | : 20 marks | On the Job Training Phase I at any one of the places given: Radio Station, Tutorial Academy, Any Service Industry Centre, T.V. Station, Newspaper Offices, etc. |

There will be a practical paper. The students will be required to submit project, which will be evaluated out of 25 marks.

Total : 90 marks

Bibliography:

- Binhan, Philip : Executive English, Longman Group, London, 3V, 1968 70.
- Blundell Oxford's Middle Miss : English for Business and Commercial World, Middle Oxford University Press, Oxford, 1985.
- Hanner, M.S and G.C.Wilson : Communication in Business and Professional Setting M.C.Grawhil, New York , 1989.
- Hollet, Caster R., Lyon L & E. Tanner : In at the Deep End: Speaking Activities for Professional People, Oxford University Press, Oxford, 1995.
- Hollett, V. : Business Opportunities, Oxford University Press, Oxford 1994..
- Scaunders&Owinn Alter : Effective Business English, Macmillan London, 1957.
- Thill, J.V. and C.L. Bouce : Excellence in Business Communication, New York, 1986.
- Bjelland, H : Business Writing the Modular Way, AmaconAmerican Management Association 135 West, 50th Street, New York, 1992.
- Doherty, M.Napo : Write fort Business: Skills for Effective Swift. Report Writing in English, Longman, London. 1987.
- Jasmin S. and S. Bright. : Business Letter Writing, Universal, New Delhi, 1984.
- King F.W. and D. Annerre : Modern English Business Letters: Commercial

- : Correspondence for Foreign Students, Longman Group, London, 1993.
- Land, Geoffrey : Business Reading, Longman, London, 1987.
- Stanton, F.L. and P. Wood : Longman. Commercial Communication, Longman, London, 1989.
- Reference Material : International Business English
- Jones and Alexander. : Cambridge University Press, Cambridge, 1992.
- Oxford Dictionary of Business English, Oxford University, Press, Oxford, 1996.
