FACULTY OF SCIENCE

SYLLABI

FOR

B.Sc. HOME SCIENCE (1ST & 2ND SEMESTER)

(Common to all Streams)

EXAMINATIONS 2014-2015
## B.Sc. HOME SCIENCE - 1st SEMESTER
(Common to all Streams)

<table>
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<tr>
<th>Sr. No.</th>
<th>Paper/ Subject</th>
<th>Credit Hours</th>
<th>Theory Marks</th>
<th>Practical Marks</th>
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<td>Introduction to Clothing and Textiles -I</td>
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<td>9*</td>
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<td>Physical Education/ Music/Dance</td>
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**IMPORTANT NOTE:**

The Paper of Environment & Road Safety Education is a compulsory qualifying paper, which the students have to study in the B.A./B.Sc. 1st year (2nd Semester). If the student/s failed to qualify the paper during the 2nd Semester, he/she/they be allowed to appear/qualify the same in the 4th or 6th Semester/s.
B.Sc. (Home Science) First Semester

ENGLISH LANGUAGE AND COMMUNICATION SKILLS
(Theory)

Max. Marks: 100
Theory: 90
Internal Assessment: 10

Credit Hours: 2+2 (Comp.)/week
Duration of Exam: 3 hours

Objective:-

1. To understand the concept of English language and Communication Skills.
2. To test a student’s understanding of the text and/or general life-situations, and also devise an effective method of assessing their ability to express themselves in a simple, lucid and correct language.

Instructions to the Examiner:
1. There will be one theory paper of three hours duration.
2. The question paper will comprise four units.

Unit- I
Prose /Stories

1. The examiner will set seven short-answer questions (to be answered in not more than 50-60 words each), from Prose/Story Sections of the prescribed text, out of which a student shall be expected to attempt only five.
   
   (5x 2 =10 Marks)

2. The examiner shall set five long-answer questions (to be answered in not more than 120-150 words each), from Prose/Story Sections of the prescribed text, out of which a student shall be expected to attempt only three.
   
   (5 x 3 = 15 Marks)

Unit-II
Poetry

3. The examiner will set seven short-answer questions (to be answered in not more than 50-60 words each), from Poetry Section of the prescribed text, out of which a student shall be expected to attempt only five.

   (5x 2 =10 Marks)

4. The examiner shall set five long-answer questions (to be answered in not more than 120-150 words each), from Poetry Section of the prescribed text, out of which a student shall be expected to attempt only three.

   (3 x 5 = 15 Marks)

Unit- III
Grammar

5. This question shall contain five incomplete sentences, in which the student will be expected to fill in the blanks with five correct prepositions.

   (5 Marks)
6. This question shall contain five incomplete sentences, in which the student will be expected to fill in the blanks with five correct articles. (5 Marks)

Unit - IV
Composition

7. This question shall be based on the comprehension of an unseen passage, with five questions on the passage, vocabulary and other grammatical items at the end. (10 Marks)

8. The students will be expected to write one (formal) letter out of the two given: to the editor or to any other Govt. official. (10 Marks)

9. Paragraph Writing (Descriptive) (10 Marks)

PREScribed TEXT BOOKS: ENGLISH AT WORK

POETRY SECTION:
- Song 36 from Gitanjali
- From Homecoming
- Myriad- Winged Bird
- I Know Why the caged Bird Sings

PROSE SECTION:
- Spoken English and Broken English
- Principles of Good Writing
- The Conjurer’s Revenge
- I Have A Dream

INTRODUCTION TO FOODS AND NUTRITION - I
THEORY
Credit Hours: 2/week

Maximum Marks: 50
Paper: 45
Internal Assessment: 05

INSTRUCTIONS TO EXAMINERS:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified.

OBJECTIVES:
1. To introduce the concept of different areas of Foods and Nutrition.
2. To gain knowledge about Foods and Nutrition.
UNIT- I
1. Introduction to Foods and Nutrition
   • Definition of food
   • Functions of Food- physiological, psychological and social

2. Classification of food on the basis of its functions
   • Health, Optimum Nutrition, Malnutrition
   • Basic terminology used in cooking (refer annexure)

UNIT- II
3. Functions and sources of-
   • Macro nutrients- Carbohydrates, Proteins and Fats
   • Micro nutrients- Minerals: Calcium, Iron and Iodine;
     Vitamins: Fat soluble (A, D, E, K)
     Water soluble (thiamine, riboflavin, niacin, pyridoxine, cyanocobalamin B₁₂, ascorbic acid)
4. Functions and sources of-
   • Water
   • Fiber

UNIT- III
5. Objectives of cooking food
6. Methods of cooking
   • Dry heat, moist heat, cooking with oil
   • solar cooking and microwave cooking
7. Effect of cooking on nutrients

UNIT IV
8. Meal planning
   • Fundamentals of meal planning
   • Factors affecting meal planning
9. Food safety
   • Basic concept of food adulteration
   • Introduction to food safety laws (PFA, BIS, HACCP, ISO, ISI, FPO, FSSA)

ANNEXURE (Basic terminology)

   a) A la carte   h) Dust   o) Meringue
   b) Appetizer   i) Emulsion   p) Puree
   c) Augratin   j) Fold in   q) Roasting
   d) Batter   k) Garnish   r) Saute
   e) Blanching   l) Glaze   s) Steaming
   f) Braising   m) Grilling   t) Whip
   g) Croutons   n) Marinate   u) Zest
INTRODUCTION TO FOODS AND NUTRITION - I

PRACTICAL

Credit Hours: 2/week                      Maximum Marks: 50
Time: 3 hours                             Paper- 40
                                                Internal Assessment- 10

OBJECTIVES:
1. To understand the concepts of weights and measurements (raw and cooked food) and its importance.
2. To acquire skills in food preparation technique of food.
3. To use appropriate methods of cooking for preparation of specific food products.
4. To observe and understand the principals involved in preparation of different foodstuffs.
5. To learn some methods of preservation of foods.
6. To understand the concept of food adulteration.

CONTENT:
1. Identification of foods.
2. Weights and measures.
3. Concept of portion cooking
4. Raw and cooked weight of foods.
5. Developing and preparing recipes rich in – proteins, carbohydrates, fat, fibre, calcium, iron, vitamin A and vitamin C.
6. Detecting adulteration in foodstuffs – ghee, honey, coffee, milk, haldi

RECOMMENDED READINGS:
INTRODUCTION TO HUMAN DEVELOPMENT
(Theory)

Credit Hours: 2/week                                                 Maximum Marks: 50
Paper: 45                                                            Internal Assessment: 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units.
3. A total of nine questions comprising of two questions from each section and
   one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory
   question (Total of five questions)
5. All questions may carry equal marks, unless specified.

Objectives:
• To introduce concepts of human development to students and link it as an
  interdisciplinary field.
• To discuss the importance and scope of the study of human development.
• To present the applied perspective on human development.

Unit-I
1. Concept of human development.
2. A brief overview of developmental stages of human Development.

Unit-II
3. Scope of the field of human development.
4. Linkage of human development with other field.

Unit-III
5. Concept of growth and development.

Unit-IV
8. Influence of environmental deprivation and stimulation on growth and
development of children.

Recommended Readings:
   Deep & Deep Publications Pvt. Ltd.
   Boston: Allyn & Bacon.
   Offset.
INTRODUCTION TO HUMAN DEVELOPMENT
(Practical)

Max. Marks: 50
Paper: 40
Internal Assessment: 10

Teaching periods: 2/week

Instructions to the examiner:
1. Each practical paper will be of three hours duration.
2. The question paper should cover entire syllabus.
3. The file work and viva voce will be of 5 marks each (Total=10 marks).

Objectives:
- To introduce methods of studying human development.
- To acquaint students with issues related to development of infants.
- To present the applied perspective on human development.

Content
1. Observation method
2. Observation of an infant.
3. Preparation of poster on any topic pertaining to human development.
4. Preparation of slogans related to issue of human development.
5. Interview method.
6. Interview of mothers related to their feeding and weaning practices.

Recommended Readings:

INTRODUCTION TO INTERIOR DESIGN & RESOURCE MANAGEMENT-I
(THEORY)

Credit Hours: 2 /week Maximum Marks: 50
Paper - 45
Internal Assessment - 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units.
3. A total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.
Objectives
1. To understand the fundamentals of interior design & resource management in changing scenario.
2. To recognize the importance of process of management in family life.
3. To recognise the contribution of motivation forces and decision making in management process.
4. To understand the elements and principles of design and their application in home interiors.

Unit-I
1. Meaning & Process of management - Planning, Organizing, Controlling and Evaluation
2. Decision Making Process – meaning and steps in Decision Making Process

Unit-II
3. Types of decision, Factors affecting Decision Making Process
4. Motivating factors in Management - Values, Goals and Standards

Unit-III
5. Meaning & Importance of Interior design, Role of Interior Designer
6. Career options in Interior Design Management

Unit-IV

INTRODUCTION TO INTERIOR DESIGN & RESOURCE MANAGEMENT-I
(PRACTICAL)

Maximum Marks: 50
Paper: 40
Internal Assessment: 10

Credit Hours: 2 /week
Duration of Exam: 3 hours
1. Cleaning of different household articles – Brass, Silver, Glass, Plastic, wood
2. Floor decoration – Alpana & Rangoli
3. Goal identification – List down your different types of goals - long term, short term and means - end goals.
4. Making a scrap book comprising of pictures depicting elements and principles of art used in interior
5. To plan, organise and execute an event - Birthday/ Festival/ Institutional/ cultural/ Fashion Show.
   a) Identification of its goal/event and objectives
   b) Preparing proposal – time schedule, list of invitees, planning for menu
   c) Planning of resources
   d) Planning for invitation and decoration
   e) Budget planning
   f) Executing an event
   g) Event evaluation and reporting

Recommended Readings:

INTRODUCTION TO CLOTHING AND TEXTILES - I
(THEORY)

Maximum Marks: 50
Credit hours -2 /week
Paper: 45
Internal Assessment: 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units.
3. A total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

OBJECTIVES:
To impart knowledge of
• Fibers, sources of fibers and their properties.
• Machines and tools used for sewing.
• Clothing terminology
• Clothing for different age groups.

Unit-I
• Classification of textile fibers
• Manufacturing Process and Properties of natural fibers:
  ➢ Cellulosic fibers-
    Cotton
    Linen
  ➢ Proteinic fibers-
    Wool
    Silk

Unit-II
• Physical and chemical properties of :-
  ➢ Cotton
  ➢ Linen
  ➢ Wool
  ➢ Silk

Unit-III
• Terminology of Clothing: Grain, Selvedge, Bias, True Bias, gathers, Dart, Pleats, Tucks, Frills, Flounces, Hemming, Basting, Seam, Seam finishes, Bows, Belts, Trimmings, Fasteners, Bowing, Skewing, Yoke, Facing and Binding.
• Tools and equipments used in clothing construction:
  ➢ Measuring Tools
  ➢ Marking Tools
  ➢ Cutting Tools
  ➢ Sewing Tools
  ➢ Finishing Tools
Unit-IV

- Sewing machine - its parts and their functions, attachments
- Common sewing machine problems and their remedies

Recommended Readings:
7. “A Reader’s Digest Step by Step guide- Sewing and Knitting”, Reader’s Digest (Australia) Pty Ltd.

INTRODUCTION TO CLOTHING AND TEXTILES - I
(Practical)

Maximum Marks: 50
Credit hours -2 /wk
Duration of exam -3 hrs

Internal Assessment: 10

Instructions to examiner
1. There will be four questions in all, two questions from each unit.
2. All questions will carry equal marks.

OBJECTIVES:
To enable the students to-
- Identify fibers.
- Identify stains and their removal.
- Make samples of basic construction techniques.
UNIT-I

Clothing
- Basic hand stitches- Basting, Hemming-visible/invisible, Tailor’s tack.
- Practice exercise of Basic seams.
- Types of Seam and self finished seams- Plain, Run and fell, French, lapped.
- Types of Seam Finishes- Overlock, Hand overcasting, Turned and Stitched, Binding

Unit-II

Textile
Fibre Identification:
- Cellulosic fibers
  - Cotton
  - Linen
- Proteinic fibers
  - Silk
  - Wool

Recommended Readings -

APPLIED BOTANY-I
(Theory)

Credit Hours: 2 Hrs. / per week Max.Marks :50
Exam. Theory: 45
Internal Assessment: 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units.
3. A total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

OBJECTIVES:
- To introduce basic concepts about gardening.
- To impart knowledge of propagation of plants by seeds and by other Vegetative methods.
- To impart knowledge about plants which are of economic importance.
- To impart knowledge about growing vegetables, fruits & flowers.
Unit-I

- Study of different types of soil:-
  - Clay
  - Sand
  - Loam
  - Gravel
  - Alluvial
  - Peat

- Study of different Soil Operations:-
  - Tillage
  - Drainage
  - Hoeing & Mulching
  - Irrigation

- Inorganic N, P, K Fertilizers

- Organic Manures:-
  - Farm yard Manure
  - Compost
  - Leaf Mould Manure
  - Green Manure
  - Poultry & Pigeon Manure
  - Soot

Unit-II

- Seed Propagation.
- Vegetative propagation by artificial methods-
  - Cutting,
  - layering,
  - grafting
  - budding.

- Vermicompost.

Unit-III

- Elementary Knowledge about plant tissue culture.
- Elementary Knowledge about Mushroom Cultivation.
- Biofertilizers.
Unit-IV

- Botanical name, family, distribution, part used & uses of the following:
  - Fibres:  Cotton, Jute & Flax
  - Oils:  Coconut, Mustard, Ground Nut, Castor Oil & linseed.
  - Condiments and Spices:  Clove, Cinnamon, Cumin, Cardamom, Coriander, Fennel, Pepper & Turmeric.

APPLIED BOTANY
(Practical)

Max. Marks: 50
Paper – 45
Internal Assessment -05

Credit Hours: 4 Hrs./per week
Duration of Exam: 3 Hrs.

1. Study of Microscope.
2. Preparation of temporary slides of onion peel to study the cell structure.
3. Study of Garden implements (Garden Tools & accessories).
4. To prepare a pot for sowing seeds and study different methods of seed sowing methods.
5. To prepare a pot for repotting of chrysanthemum.
6. (i) Propagation of roses by cutting.
   (ii) Propagation of crotons & coleus by cutting.
7. (i) Propagation by whip & tongue grafting.
   (ii) Propagation by wedge grafting.
8. Economic Botany: - Identify, Name, Family, Part used and uses of the following:
   (i) Fibres:  Cotton, Jute & flax.
   (ii) Oils:  Mustard, groundnut, Castor, Coconut & linseed.
   (iii) Condiments & spices:  Clove, cardamom , cinnamon, cumin, coriander, fennel, pepper & Turmeric

RECOMMENDED READINGS:

1. B. Choudhary: Vegetables (National Book of India, New Delhi 1979)
11. Sham Singh: Fruit Cultivation in India.

### Applied Zoology-I

**THEORY**

Credit Hours : 2 hours/ week  
Total marks : 50  
Paper (Theory) : 45  
Internal Assessment : 05

**Instructions for Paper Setter:**
1. Each theory paper will be of three hours duration.
2. Question paper will have four units.
3. A total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

**OBJECTIVES:** To provide knowledge regarding the application of Zoology in day to day life.

#### Unit- I

An elementary study of the following animals as indicated:
1. Malaria parasite: Detail life history and mode of transmission.
2. *Entamoeba histolytica* and *Entamoeba coli*: Habit distribution, disease produced and mode of transmission.
3. *Trypanosoma gambiense* and *Leishmania dononani*: Habit distribution, disease produced and mode of transmission.
5. *Fasciola hepatica* and *Wuchereria bancrofti*: life history, disease caused and mode of transmission.

#### Unit-II

An elementary study of Insect Pest
7. Control of insect pest: Cockroach, Termite.
9. Habit habitat and life history only: Mosquito (*Culex & Anopheles*).

#### Unit-III

Economic important insect and Earthworm
10. Honey bee: Habit habitat and life history only.
11. Silk moth: Habit habitat and life history only.
12. Lac insect: Habit habitat and life history only.
13. External feature life history and economic importance of Earthworm

Unit-IV

15. Elementary knowledge of Sericulture.
17. Elementary knowledge of Poultry( important breed of poultry, selection of breed, Housing, Feeding and common ailment such as Ranikhet, coccidiosis, fowlpox and fowl cholera, only)
18. Elementary knowledge of Prevention of Bird flue.
19. Elementary knowledge of composite and integrated fish (cultivation of major carps only) culture in pond only (excluding induced breeding).

APPLIED ZOOLOGY-I

(PRACTICAL)

Credit Hours : 2 hours/ week Total marks : 50
Duration of Exam: 3 hours Paper (Theory) : 40
Internal Assessment : 10

1. Phylum based identification and Economic importance of Invertebrates and Vertebrates present in the laboratory.
2. Identification of slides and specimens: Malaria parasite( *Plasmodium*), *Fasciola hepatica* (life stages also), *Ascaris, Taenia solium*.
3. Identification of available insect pest and their life stages.
4. Preparation of temporary mounts of mouth parts of cockroach
5. Visit to Poultry farm.
7. Project report on field visit to renowned poultry

Books Recommended

7. Sardar Singh: Bee- Keeping in India, ICAR(1972).
10. Naidu, P.M.N.: Poultry keeping in India(1976), ICAR
BASICS OF COMPUTER
(PRACTICAL)

Credit Hours: - 2 / Week                 Maximum Marks : 50
Duration of Exam: - 03 Hours             Paper : 40
Internal Assessment: 10

Objective:
1. To impart basic computer knowledge to students.
2. To enable the students to concept of fundamentals and its applications.

Instructions for paper setters:
➢ There will two questions in all from Section –II only.
➢ One question will be set from Sr. No. 1 carrying 20 marks.
➢ One question will be set from Sr. No. 02 carrying 20 marks.
➢ Each question can be sub divided into according to the Practical

Section-I
(THEORATICAL BACKGROUND TO BE DONE IN PRACTICAL CLASSES)

1. Introduction to Computer: Definition, Generation, Classification of computers,
   Configurations of computers, Computer software and hardware. Computer
   peripherals.

2. Computer memory: Types, Main memory, Secondary memory, Introduction to
   Secondary storage devices.

Section II
(PRACTICAL)

1. Using Windows: Windows Basics; Start Windows; Using different windows
   simultaneously; Moving through windows and mouse; Maximize/Minimize
   windows; Use of help feature; Exit windows; Starting an application; Copy,
   Move, Delete files/ Directories, Creating Directories. Reaming files and
   directories.

2. Word Processing Package: Basics of Word Processing; Text Selection, Opening
   Documents and Creating Documents, Saving Documents/Quitting
   Documents, Cursor control, Printing and Replacing Text, Spell Check
   Feature/Autocorrect feature, Grammar facility, Retrieving often used text;
   Auto text character formatting, Page formatting; Document Enhancement:
   Adding Borders and shading, Adding Headers and Footers, Setting up
   Multiple columns, Shorting locks, Adjusting Margins and Hyphenating
   Documents, Creating Master Documents, Data Source, Merging Documents,
   Using Mail merge feature for labels and envelopes: Graphics and Using
   Templates and wizards.

3. Presentation Packages: Basics, General Features, Creating a presentation,
   Working with slides, Inserting images, Video, Audio Clips, Indents and line
   spacing, Slide animations transactions, Manual and Automatic slide show,
   Color themes etc.
**Recommended Readings:-**


**PHYSICAL EDUCATION**

**(PRACTICAL)**

**Credit Hours: 2 Hrs. /week**

**Grade: S/US**

**Duration of Exam: 3 hours**

**Instruction to the Examiner:**

The examiner shall consider annual assignment of the student, physical education practical file, take practical exam & viva voce based on syllabus for grading the students performance in the examination.

**Objectives:**

1. Wholesome development of an individual.
2. Knowledge of basic techniques involved in athletic events.
3. Practical knowledge of techniques and skills involved in various games out of syllabus.
4. Knowledge and benefit of yoga in day to day life.

**Unit–I**

Athletics: Brief knowledge of track and field events. Layout of Track, Short Distance Races (including relay race)
[a] Technique for start, finishing and during running in a race.
[b] General fouls in track events.

**Unit– II**

Field Event: Throw: Shot put
[a] Dimension of the throwing area and specification of equipment used
[b] Techniques of putting a shot
[c] Fouls of throwing events.

**Unit– III**

Anyone game from the following games:
[a] Badminton
[b] Kho- Kho
[c] Volleyball
[d] Hockey
[e] Yoga

**Unit – IV**

[a] Brief knowledge of Asian Games and current national records in Athletics
[b] Knowledge of prominent players of the games in syllabus
REFERENCES:
2. Rule Book of Athletics by Amateur Athletic Federation of India.
3. Rule Book of Badminton by Badminton Federation of India.
5. Rule Book of Volley Ball by Volley Ball Federation of India.
6. Rule Book of Hockey by Hockey Federation of India
7. Various search engines found on internet.

MUSIC (VOCAL)
(Practical)

Credit Hours: 2 Hrs/week Grade: S/US
Duration of Exam: 3 hours

Instruction to the Examiner:
The examiner shall consider, music practical file, practical based on syllabus and viva-voce for grading the students performance.

Objectives:
- Introduction of swara, raga, taal, alamkars.
- To develop interest in Classical Music

1. Two fast khayals with Alap and Taans of the following Ragas:
   a) Bilawal
   b) Kafi
2. One Lakhsan geet in any raag of the prescribed syllabus
3. The following Taalas with Ekgun and Dugun with Bols on hand.
   a) Teen taal
   b) Dadra taal
4. Life sketches of musicians:
   a) Pandit Ravi Shankar
   b) Pandit Bheem Sen Joshi

REFERENCES:
7. Search engines on internet.
DANCE
(Practical)

Credit Hours : 2 Hrs/week

Duration of Exam: 3 hours

Grade: S/US

Instruction to the Examiner:
The examiner shall consider, dance practical file, practical based on syllabus
and viva-voce for grading the students performance.

Objectives:

• Wholesome development of an individual.
• Introduction to *laya* and *taal*

1. Teen taal: Tatkar in single, dugun and chaugun laykaries
   Namaskar: 1, Amad: 1, Tora: 2, Paran: 1, Chakardaar Paran: 2, Kavit: 1

2. Practical demonstration of ten hand movements with their function
3. Ability to play Teen taal on table.
4. Description of various Gharanas of Kathak.

REFERENCES:

1. Kathak Nritya Shiksha Part-I, by Puru Dadheish
2. Kathak Nritya Shiksha Part-II, by Puru Dadheish
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<td>5</td>
<td>Introduction to Clothing and Textiles -II</td>
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<td>Applied Botany - II</td>
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<td>7</td>
<td>Applied Zoology -II</td>
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<td>Computer Applications</td>
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<td>9*</td>
<td>Environmental &amp; Road Safety Education</td>
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<td>10</td>
<td>Physical Education/Music/Dance</td>
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<td>TOTAL</td>
<td>32</td>
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Objective:-

1. To understand the concept of English language and Communication Skills.
2. To test a student's understanding of the text and/or general life-situations, and also devise an effective method of assessing their ability to express themselves in a simple, lucid and correct language.

Instructions to the Examiner:

1. There will be one theory paper of **three hours** duration.
2. The question paper will comprise **four** units.

**Unit: I**

**Prose /Stories**

3. The examiner will set *seven* short-answer questions (to be answered in not more than 50-60 words each), from Prose/Story Sections of the prescribed text, out of which a student shall be expected to attempt only *five*. **(5x 2 =10 Marks)**

4. The examiner shall set five long-answer questions (to be answered in not more than 120-150 words each), from Prose/Story Sections of the prescribed text, out of which a student shall be expected to attempt only **three**. **(5 x 3 = 15 Marks)**

**Unit-II**

**Poetry**

5. The examiner will set *seven* short-answer questions (to be answered in not more than 50-60 words each), from Poetry Section of the prescribed text, out of which a student shall be expected to attempt only **five**. **(5x 2 =10 Marks)**

6. The examiner shall set five long-answer questions (to be answered in not more than 120-150 words each), from Poetry Section of the prescribed text, out of which a student shall be expected to attempt only **three**. **(3 x 5 = 15 Marks)**

**Unit: III**

**Grammar**

7. This question shall contain *five* pairs of homophones which the students would be expected to use in sentences of their own so as to bring out the difference in their meaning. **(10 Marks)**
8. The students will be asked to correct ten sentences or choose the correct sentences out of the given pairs or use the correct form of the verbs in the given sentences. (10 Marks)

**Unit: IV**
**Composition**

9. The students will be expected to write one (informal) letter out of the two given. (10 Marks)

10. Report Writing (On a given situation/incident) (10 Marks)

**PRESCRIBED TEXT BOOKS: ENGLISH AT WORK**

**POETRY SECTION:**
- Telephonic Conservation
- Dover Beach
- Anthem For Doomed Youth
- The Unknown Citizen

**PROSE SECTION:**
- Letter To A Teacher
- The Best Investment I Ever Made
- Taking The Law Into Their Hands
- The Elixir Of Life
INTRODUCTION TO FOODS AND NUTRITION - II
THEORY

Credit Hours: 2/week  Maximum Marks: 50
Paper: 45  
Internal Assessment: 05

INSTRUCTIONS TO EXAMINERS:
1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified.

OBJECTIVES:
1. To introduce the concept of different areas of Foods and Nutrition.
2. To gain knowledge about Foods and Nutrition.

Unit- I
1. Study of the food groups with respect to their classification, basic composition and nutritive content
   • Cereals
   • Pulses and legumes
   • Fruits and vegetables
   • Fats and oils
   • Sugar and jaggery

2. Beverages- tea, coffee, cocoa

Unit- II
3. Study of the food groups with respect to their classification, basic composition and nutritive content
   • Milk and milk products
   • Eggs, meat, fish and poultry
   • Nuts and oil seeds

4. Food storage:
   • Introduction and general guidelines for safe food storage
   • Dry food storage
   • Refrigerated store
   • Freezer storage
5. Balanced Diet
   • Definition and concept
   • Factors affecting balanced diet

6. RDA – definition
   • Reference man and woman
   • Food pyramid

Unit IV

7. Food Preservation-
   • Definition and importance
   • Food spoilage causes and factors affecting it
   • Principles of food preservation

8. Methods of preservation – household and commercial

INTRODUCTION TO FOODS AND NUTRITION - II

PRACTICAL

Credit Hours: 2/week        Maximum Marks: 50
Duration of exam: 3 hours       Paper: 40
Internal Assessment:10

OBJECTIVES:

1. To understand the concepts of weights and measurements (raw and cooked food) and its importance.
2. To acquire skills in food preparation technique of food.
3. To use appropriate methods of cooking for preparation of specific food products.
4. To observe and understand the principals involved in preparation of different foodstuffs.
5. To learn some methods of preservation of foods.
6. To understand the concept of food adulteration.

CONTENT:

1. Food preparation according to different food groups –
   • Cereals and cereal products
   • Pulses – husked, de - husked
   • Vegetables and fruits
   • Milk and milk products
2. Beverages preparation
3. Demonstration of preparation of jams, murrabba, pickles for preservation

RECOMMENDED READINGS:

INTRODUCTION TO HUMAN DEVELOPMENT
(Theory)
Credit Hours: 2/week Maximum Marks: 50
Time: 3 Hours Paper: 45
Internal Assessment: 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four section/UNITs.
3. A total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

Objectives:
• To introduce concepts of human development to students and link it as an interdisciplinary field.
• To discuss the importance and scope of the study of human development.
• To present the applied perspective on human development.

Unit-I
1. The beginning of human life, stage of prenatal period.
2. Factors influencing prenatal development.

Unit-II
3. Types of child birth.

Unit-III
5. Reflexes of Infants.
6. Milestones of motor development from 0-2 years.
Unit-IV

7. Factors affecting physical development of infants.
8. Pattern of physical growth and development from 0-2 years.

Recommended Readings:


INTRODUCTION TO HUMAN DEVELOPMENT
(Practical)

Max. Marks: 50
Paper: 45
Internal Assessment: 05

Teaching periods: 2/week

Instructions for Paper-setter:

1. Each practical paper will be of three hours duration.
2. The question paper should cover entire syllabus.
3. The file work and viva voce will be of 5 marks each (Total=10 marks).

Objectives:

• To introduce methods of studying human development.
• To acquaint students with issues related to development of infants.
• To present the applied perspective on human development.

Content

1. Questionnaire method.
2. Preparation of a questionnaire on any issue related to pregnancy.
3. Recording of reflexes of newborn babies.
4. Preparation of a file with collection of traditional practices, rituals.
5. Lullabies used while rearing up infants.
6. Preparation of resource material/audio visual aids/toys to enhance physical development of infants.
Recommended Readings:


INTRODUCTION TO INTERIOR DESIGN & RESOURCE MANAGEMENT-II
(THEORY)

Maximum Marks: 50
Paper - 45
Internal Assessment - 05

Credit Hours: 2 /week

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four Units.
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

Objectives
1. To understand the fundamentals of interior design & resource management in changing scenario.
2. To recognize the importance of resources and maximizing & conserving their use in order to achieve goals.
3. To understand the elements and principles of design and their application in home interiors.
4. To understand the importance of colour in interiors.

Unit-I
1. Meaning & Classification of resources – Human, Non-human and Shared resources.
2. Factors affecting the use of resources

Unit-II
3. Money- Types of income, steps in budget planning, advantages and limitations of budget planning.
4. Time - Steps in time plan, tools in time management

Unit-III
5. Energy- Classification of efforts used in homemaking activities and Fatigue
6. Work simplification - Its meaning and principles of work simplification.

**UNIT-IV**

8. Colour schemes and Emotional effects of colours

**INTRODUCTION TO INTERIOR DESIGN & RESOURCE MANAGEMENT-II (PRACTICAL)**

Maximum Marks: 50
Paper : 40
Internal Assessment: 10

Credit Hours: 2 /week
Duration of Exam: 3 hours

1. Table setting for different meals
   Table manners and Napkin folding
2. Budget planning for different income groups
3. Making of colour wheel
   a) Showing primary, secondary and tertiary colours
   b) Properties of Colours - Value, Intensity, Warm colours & Cool colours
   c) Showing different colours scheme
4. Making a scrap book comprising of pictures depicting different colour schemes and analysing

**Recommended Readings**

INTRODUCTION TO CLOTHING AND TEXTILES - II
(THEORY)

Maximum Marks: 50
Credit hours: 2 /wk
Duration of exam: 3 hrs
Internal Assessment: 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four Units.
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified.

OBJECTIVES:
To impart knowledge of
- Fibers, sources of fibers and their properties.
- Machines and tools used for sewing.
- Clothing terminology
- Clothing for different age groups.

Unit-I
- Manufacturing process of Man-made fibers :
  - Regenerated Cellulosic Fibers
    Viscose Rayon
    Acetate
  - Synthetic Fibers
    Polyester
    Nylon

Unit-II
- Physical and Chemical properties of Man-made fibers :
  - Regenerated Cellulosic Fibers
    Viscose Rayon
    Acetate
  - Synthetic Fibers
    Polyester
    Nylon
Unit-III

Factors affecting selection of clothing:

- Age
- Season
- Income
- Occasion
- Occupation
- Sex
- Fashion

Unit-IV

Clothing for different age groups with special reference to fabrics, colours, style and details:

- Infants
- Toddlers
- Pre-school children
- Adolescents
- Adults
- Elderly

Recommended Readings

7. “A Reader’s Digest Step by Step guide- Sewing and Knitting”, Reader’s Digest (Australia) Pty Ltd.

INTRODUCTION TO CLOTHING AND TEXTILES -II
(Practical)

Maximum marks: 50
Credit hours -2 /wk
Duration of exam -3 hrs
Internal Assessment:10

Instructions to examiner

1. There will be four questions in all, two questions from each unit.
2. All questions will carry equal marks.
OBJECTIVES:
To enable the students to-
- Identify fibers.
- Identify stains and their removal.
- Make samples of basic construction techniques.

Unit-I

Clothing
Making samples of-
  a) Fullness- Types of Darts, Tucks, Pleats, Gathers.
  b) Neckline Finishes-Binding, Facing.
  c) Fasteners- Button, Buttonhole, Hook and eye, Press Button.

Unit-II

Textile
Fibre identification:
- Regenerated Cellulosic fibers
  ➢ Viscous rayon
  ➢ Acetate rayon
- Synthetic fibers
  ➢ Nylon
  ➢ Polyester
  ➢ Stain Removal

Recommended Readings -
**APPLIED BOTANY-II**
*(Theory)*

Credit Hours: 2 Hrs. / per week          Max.Marks  :50  
Exam. Theory: 45         Internal Assessment: 05

**Instructions for Paper Setter:**
1. Each theory paper will be of three hours duration.  
2. Question paper will have four Units.  
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus.  
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)  
5. All questions may carry equal marks, unless specified.

**Objectives:**

- To introduce basic concepts about gardening.  
- To impart knowledge of propagation of plants by seeds and by other Vegetative methods.  
- To impart knowledge about plants which are of economic importance.  
- To impart knowledge about growing vegetables, fruits & flowers.

**Unit-I**

- Principle and planning of kitchen garden.  
- Principle and planning in laying out of a garden.  
- Cultivation and Care of Lawns.

**Unit-II**

- Elementary knowledge about cultivation, care & maintenance of common Indoor foliage plants like crotons.  
- Elementary Knowledge about cultivation, care & maintenance of Bonsai  
- Elementary Knowledge about cultivation, care & maintenance of Coleus.

**Unit-III**

- Elementary knowledge about types, cultivation, care and maintenance of Roses  
- Cultivation and Care of Hedges.  
- Elementary Knowledge about cultivation, care of Chrysanthemums.

**Unit-IV**

- Botanical Name, Family, Distribution, Part used & uses of the following:-  
  - Beverages: Tea, Coffee & Cocoa  
  - Medicinal Plants: Holy basil, Mint, Ashwagandha, Amaltas, Aloe vera & Amla  
  - Plant dyes: Henna, Indigo & Pomegranate
Teaching Periods: 2/week

Content

1. Preparation of temporary slides of Rhoeo peel to study the cell structure, stomata and chloroplast.

2. To prepare a seed bed for raising seedlings.

3. To prepare a bed for sowing and cultivation of Potato.

4. To prepare a bed for transplanting vegetables like onion, cauliflower, Brinjal & tomato.

5. To demonstrate propagation of plants by layering method:-
   - Air layering
   - Ground Layering.

6. To demonstrate propagation of roses by budding.


8. Economic Botany:- Identify Name, Family, Distribution, Parts used and uses of the following:-
   (i) Beverages: Tea, Coffee & Cocoa.
   (ii) Medicinal Plants: Tulsi, Mint, Amla, Ashwagandha, Aloe vera & Amaltas.
   (iii) Plant Dye: Henna, Indigo & Pomegranate.

- Herbarium: Collection of 25 specimens of ornamental plants.
- Visit to herbal parks and forest to study flora in natural habitat, if possible.
RECOMMENDED READINGS

1. B. Choudhary: Vegetables (National Book of India, New Delhi 1979)
11. Sham Singh: Fruit Cultivation in India.
APPLIED ZOOLOGY-II
(THEORY)

Credit Hours : 2 hours/ week  Total marks : 50
Paper (Theory) : 45
Internal Assessment : 05

Instructions for Paper Setter:
1. Each theory paper will be of three hours duration.
2. Question paper will have four Units.
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus.
4. Student will attempt one question from each UNIT and the compulsory question (Total of five questions)
5. All questions may carry equal marks, unless specified

OBJECTIVES: To provide knowledge regarding the application of Zoology in day to day life.

Unit- I
1. An Elementary Knowledge of Structure and Function of DNA.
2. An Elementary Knowledge of Structure of RNA.
4. An Elementary Knowledge of Structure of human Chromosomes their variation.

Unit- II
5. Heredity-
   • Simple Inheritance (According to Mandel-law)
   • Monohybrid and dihybrid cross
   • Incomplete inheritance
6. Human genetics
   • An Elementary knowledge ABO and Rh Blood groupings.
   • An Elementary knowledge of Genetic basis of blood groups (ABO and Rh)
7. Hereditary Diseases
   • An Elementary Knowledge of Autosomal and sex chromosomal abnormalities.
   • An Elementary knowledge of Genetic basis of common hereditary diseases such as Haemophilia, Colour-blindness, Mongolism, Diabetes, Thalassemia

Unit-III
8. An elementary knowledge of Gene, Genome and Genomic.
9. An elementary knowledge of Genetic engineering.
10. An elementary knowledge of Transgenic product -Bt-Products, Golden Rice, Flavr-Savor Tomato.
11. An elementary Knowledge of Polymerase Chain Reaction (PCR)

Unit-IV
12. An elementary knowledge of Biotechnology.
13. An elementary knowledge of Stem cell research.
15. An elementary Knowledge of Forensic DNA Diagnostics.
16. An elementary Knowledge of Swine Flu.
APPLIED ZOOLOGY-II
(Practical)

Credit Hours: 2 hours/week  Total marks: 50
Duration of Exam: 3 hours  Paper (Theory): 40
                           Internal Assessment: 10

1. Blood grouping (ABO)
3. Demonstration of Extraction of DNA.
4. Demonstration of submarine Electrophoresis of extracted DNA in Agarose Gel.
5. Demonstration of Visualization of Extracted DNA by staining it with Ethidium Bromide.
6. Demonstration of Polymerase Chain Reaction (PCR)
7. Project report on visit to renowned laboratory/institute

Books Recommended
COMPUTER APPLICATION
(PRACTICAL)

Credit Hours: 2 / Week      Maximum Marks: 50
Duration of Exam: 03 Hours      Paper: 40
Internal Assessment : 10

Objective:
1. To impart computer knowledge to students through practical.

Instructions for paper setters:
➢ There will two questions in all from Section –II only.
➢ One question will be set from Sr. No. 1 carrying 20 marks.
➢ One question will be set from Sr. No. 02 carrying 20 marks.
➢ Each question can be sub divided into according to the Practical

Section I
THEORETICAL BACKGROUND TO BE DONE IN PRACTICAL CLASSES
1. Computer Memory in details, secondary storage device HDD, CD, DVD, Pen Drive etc.
2. Operating System (OS), Introduction, Function of OS ,Types of OS, Working of OS in brief

Section II
PRACTICAL
1. Spreadsheet Package: Worksheet Basics, Data Entry in Cells : Entry of numbers, text and formulae, Moving data in a worksheet, Moving around in a worksheet, Selecting Data Range, Using the interface (Toolbars, Menus) Editing Basics, Working with workbooks, Saving and Quitting, Cell referencing; Formatting and Calculations : Calculations and worksheets-using Auto fill, Working with Formulae, Efficient Data Display with Data formatting (number formatting, data formatting etc.), Working with Ranges, Worksheet Printing; Working with Graphs and Charts: Adding/Formatting Text Data with Auto format, creating Embedded Chart using chart wizard, sizing and moving parts, updating charts, Changing chart types, Creating separate charts, Chart wizard, Adding Titles, Legends and Gridlines, Printing Charts; Database Management; finding records with Data form, Adding/Deleting Records, Filtering Records in a worksheet; Functions and Macro: Worksheet with worksheet function using function-wizard, Creating Macros, Record Macros, Running Macros, Assigning Macros to Buttons, Multiple worksheets and scanners.

2. Internet and its applications, URL, Email (Creating new mail account, sending mail, attachments etc.), search engines, file downloading and saving of file. Writing CD, DVD in different formats using CD or DVD writing software’s. Data transfer to or from Solid state devices.
ENVIRONMENT AND ROAD SAFETY EDUCATION

UNIT I (ENVIRONMENT)

Note: The syllabus has 15 topics to be covered in 25 hour lectures in total, with 2 lectures in each topic from 2 to 11 and one each for the topics 1 and 12 to 15.

1. Environment Concept:
   Introduction, concept of biosphere—lithosphere, hydrosphere, atmosphere; Natural resources—their need and types; principles and scope of Ecology; concepts of ecosystem, population, community, biotic interactions, biomes, ecological succession.

2. Atmosphere:
   Parts of atmosphere, components of air; pollution, pollutants, their sources, permissible limits, risks and possible control measures.

3. Hydrosphere:
   Types of aquatic systems. Major sources (including ground water) and uses of water, problems of the hydrosphere, fresh water shortage; pollution and pollutants of water, permissible limits, risks and possible control measures.

4. Lithosphere:
   Earth crust, Soil—a life support system, its texture, types, components, pollution and pollutants, reasons of soil erosion and possible control measures.

5. Forests:
   Concept of forests and plantations, types of vegetation and forests, factors governing vegetation, role of trees and forests in environment, various forestry programmes of the Govt. of India, Urban Forests, Chipko Andolan.

6. Conservation of Environment:
   The concepts of conservation and sustainable development, why to conserve, aims and objectives of conservation, policies of conservation; conservation of life support systems—soil, water, air, wildlife, forests.

7. Management of Solid Waste:
   Merits and demerits of different ways of solid waste management—open, dumping, landfill, incineration, resource reduction, recycling and reuse, vermicomposting and vermiculture, organic farming.
8. **Indoor Environment:**

Pollutants and contaminants of the in-house environment; problems of the environment linked to urban and rural lifestyles; possible adulterants of the food; uses and harms of plastics and polythene; hazardous chemicals, solvents and cosmetics.

9. **Global Environmental Issues:**

Global concern, creation of UNEP; Conventions on climate change, Convention on biodiversity; Stratospheric ozone depletion, dangers associated and possible solutions.

10. **Indian Laws on Environment:**

Indian laws pertaining to Environmental protection : Environment (Protection) Act, 1986; General information about Laws relating to control of air, water and noise pollution. What to do to seek redressal.

11. **Biodiversity:**

What is biodiversity, levels and types of biodiversity, importance of biodiversity, causes of its loss, how to check its loss; Hotspot zones of the world and India, Biodiversity Act, 2002.

12. **Noise and Microbial Pollution:**

Pollution due to noise and microbes and their effects.

13. **Human Population and Environment:**


14. **Social Issues:**

Environmental Ethics: Issues and possible solutions, problems related to lifestyle, sustainable development; Consumerisms and waste generation.

15. **Local Environmental Issues:**

Environmental problems in rural and urban areas, Problem of Congress grass & other weeds, problems arising from the use of pesticides and weedicides, smoking etc.

**Practicals:**

Depending on the available facility in the college, a visit to Vermicomposting units or any other such non-polluting eco-friendly site or planting/caring of vegetation/trees could be taken.
Examination Pattern:

A qualifying paper of 50 marks comprising of fifty multiple choice questions (with one correct and three incorrect alternatives and no deduction for wrong answer or unattempted question), and of 1 hour duration.

The students have to obtain 33% marks to qualify the paper. The marks are not added/included in the final mark sheet.

UNIT II (ROAD SAFETY)

1. Concept and Significance of Road Safety.
2. Role of Traffic Police in Road Safety.
3. Traffic Engineering – Concept & Significance.
5. How to obtain Driving License.
7. Common Driving mistakes.
8. Significance of First-aid in Road Safety.
9. Role of Civil Society in Road Safety.

Note: Examination Pattern:

- The Environment and Road Safety paper is 70 marks.
- Seventy multiple choice questions (with one correct and three incorrect alternatives and no deduction for wrong or un-attempted questions).
- The paper shall have two units: Unit I (Environment) and Unit II (Road Safety).
- Unit II shall comprise of 20 questions with minimum of 1 question from each topics 1 to 10.
- The entire syllabus of Unit II is to be covered in 10 hours.
- All the questions are to be attempted.
- Qualifying Marks 33 per cent i.e. 23 marks out of 70.
- Duration of examination: 90 minutes.
- The paper setter is requested to set the questions strictly according to the syllabus.

Suggested Readings

2. Road Safety Signage and Signs (2011), Ministry of Road Transport and Highways, Government of India.

Websites:

(a) [www.chandigarhpolice.nic.in](http://www.chandigarhpolice.nic.in)
(b) [www.punjabpolice.gov.in](http://www.punjabpolice.gov.in)
(c) [www.haryanapolice.gov.in](http://www.haryanapolice.gov.in)
(d) [www.hppolice.nic.in](http://www.hppolice.nic.in)
PHYSICAL EDUCATION
(Practical)

Credit Hours: 2 Hrs. /week
Grade: S/US
Duration of Exam: 3 hours

Instruction to the Examiner:
The examiner shall consider annual assignment of the student, physical education practical file, take practical exam & viva voce based on syllabus for grading the students performance in the examination.

Objectives:
1. Wholesome development of an individual.
2. Knowledge of basic techniques involved in athletic events.
3. Practical knowledge of techniques and skills involved in various games out of syllabus.
4. Knowledge and benefit of yoga in day to day life.

Unit–I
Athletics: Brief knowledge of track and field events. Layout and marking of Track, Middle Distance Races
[a] Technique for start, finishing and during running in a race.
[b] General fouls in track events.

Unit– II
Field Event: Throw: Discus Throw
[a] Dimension of the throwing area and specification of equipment used
[c] Fouls of throwing events.

Unit– III
Anyone game from the following games:
[a] Badminton
[b] Kho- Kho
[c] Volleyball
[d] Hockey
[e] Yoga

Unit - IV
[a] Brief knowledge of Olympic Games
[b] Olympic records and World records in Athletic events.
[c] Knowledge of prominent players of the games in syllabus
[d] Brief knowledge of Awards and Honors in Various Games.

REFERENCES:
2. Rule Book of Athletics by Amateur Athletic Federation of India.
3. Rule Book of Badminton by Badminton Federation of India.
5. Rule Book of Volley Ball by Volley Ball Federation of India.
6. Rule Book of Hockey by Hockey Federation of India
7. Various search engines found on internet.
MUSIC (VOCAL)
(Practical)

Credit Hours : 2 Hrs/week       Grade: S/US
Duration of Exam: 3 hours

Instruction to the Examiner:
The examiner shall consider, music practical file, practical based on syllabus and viva-voce for grading the students performance.

Objectives:
• Introduction of swara, raga, taal, alamkars.
• To develop interest in Classical Music

1. Two fast khayals with Alap and Taans of the following Ragas:
   a) Yaman
   b) Bhopali

2. One Lakhsan geet in any raag of the prescribed syllabus

3. The following Taalas with Ekgun and Dugun with Bols on hand.
   a) Kehrwa taal
   b) Rupak taal

4. Life sketches of musicians:
   a) Pandit Hari Prasad Chourasia
   b) Pandit Jasraj

REFERENCES:
7. Search engines on internet.
DANCE
(Practical)

Credit Hours: 2 Hrs/week       Grade: S/US
Duration of Exam: 3 hours

**Instruction to the Examiner:**
The examiner shall consider, dance practical file, practical based on syllabus and viva-voce for grading the students performance.

**Objectives:**
- Wholesome development of an individual.
- Introduction to *laya* and *taal*

1. Jhap taal: Tatkar in single, dugun and chaugun laykaries
   Amad:1, Tora:4, Paran:2, Kavit:1

2. Practical demonstration of ten hand movements with their function
3. Ability to play Teen taal on table.
4. Life sketches of Pandit Uday Shankar ji or Pandit Sundar Prasad ji with their contributions in promoting Kathak dance

**REFERENCES:**

1. Kathak Nritya Shiksha Part-I, by Puru Dadheish
2. Kathak Nritya Shiksha Part-II, by Puru Dadheish

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