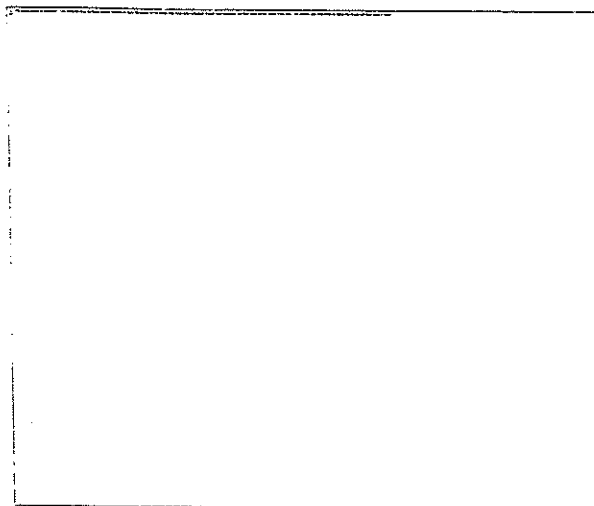


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**BHAGAT PHOOL SINGH MAHILA
VISHWAVIDYALAYA, KHANPUR KALAN
(SONEPAT)**

(14)



**SYLLABUS/ORDINANCE
B. SC. (HOME SCIENCE)
W.E.F. 2017-2018**

Submitted From:

**Principal,
Examination
BPS Institute of Higher Learning
Khanpur Kalan (Sonapat)
(Sonapat)**

Submitted to:

**Controller of
BPS Women University,
Khanpur Kalan**

**CORRECTIONS IN THE ORDINANCE
(w.e.f. 2017-18)**

Evaluation and Grading:

The assessment will be 20% internal and 80% external.

The students have to qualify internal as well as external tests separately.

The weightage for internal evaluation (20%) is as follows:

| | | |
|--|-----|-----------------------|
| Class tests/Minor test/Sessional tests | 10% | (10 marks out of 100) |
| Assignments/Presentations/Seminars/Group Discussions | 5% | (05 marks out of 100) |
| Attendance | 5% | (05 marks out of 100) |

Distribution of Marks for Attendance

| | |
|---------------|---------|
| 75% to 80% | 2 Marks |
| 80% to 85 % | 3 Marks |
| 85% and above | 5 Marks |

Credits:

The classes/periods in BPSIHL (Formerly BPSM Girls' College) are of 45 Minutes each. So, the 3 credits of theory paper refer to 4 periods and 1credit of practical refers to 3 periods/ 2 hours.

CONSOLIDATED PROGRAMME DETAILS

| Sr. No. | Semester | Total Credits | Total Marks |
|----------------------------|----------|---------------|-------------|
| 1 | I | 21.5 | 550 |
| 2 | II | 24.5 | 600 |
| 3 | III | 23 | 550 |
| 4 | IV | 23 | 550 |
| 5 | V | 23 | 550 |
| 6 | VI | 22 | 500 |
| TOTAL CREDITS/MARKS | | 137 | 3300 |

B.P.S.M. Institute of Higher Learning
B. Sc. (Composite Course) Home Science
Course Curriculum & Scheme of Examinations (w.e.f. 2017-18

1st Semester

| Sr. No | Code | Course Title | Periods/ week | | Credits | Marks distribution | | |
|-----------------------|---------|---|---------------|----|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |
| 1. | FON-101 | Fundamentals of Nutrition | 4 | | 3 | 10 | 40 | 50 |
| | FRP-101 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 2. | TIC-101 | Textiles and its Care | 4 | | 3 | 10 | 40 | 50 |
| | TIP-101 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | ENG-101 | English | 4 | 2 | 4.5 | 10 | 40 | 50 |
| 4. | ICH-101 | Introductory Chemistry | 3 | | 2 | 10 | 40 | 50 |
| | ICP-101 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 5. | BOC-101 | Basics of Computer | 2 | | 1 | 10 | 40 | 50 |
| | BOP-101 | Practical | | 6 | 2 | 10 | 40 | 50 |
| 6. | ALH-101 | Applied Life Science & Human Physiology I | 3 | | 2 | 10 | 40 | 50 |
| | ALP-101 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 7. | EVS-101 | Environment studies | 2 | | | 20 | 40 | 50 |
| Total Periods/Credits | | | 22 | 20 | 21.5 | 110 | 440 | 550 |

Pass Percentage — 40% and above- Both in External and Internal examination separately.

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2nd Semester

| Sr. No | Code | Course Title | Periods/week | | Credits | Marks distribution | | |
|-----------------------------|---------|--|--------------|----|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |
| 1. | FFM-102 | Family Finance Management | 4 | | 3 | 10 | 40 | 50 |
| | FFP-102 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 2. | FRM-102 | Fundamentals of Family Resource Management | 4 | | 3 | 10 | 40 | 50 |
| | FRP-102 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | ENG-102 | English | 4 | 2 | 4.5 | 10 | 40 | 50 |
| 4. | OCH-102 | Organic Chemistry | 3 | | 2 | 10 | 40 | 50 |
| | OCP-102 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 5. | APH-102 | Applied Physics | 3 | | 2 | 10 | 40 | 50 |
| | APP-102 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 6. | CAP-102 | Computer Applications | 1 | | 1 | 10 | 40 | 50 |
| | CPP-102 | Practical | | 6 | 2 | 10 | 40 | 50 |
| 7. | ALH-102 | Applied Life Science & Human Physiology II | 4 | | 3 | 10 | 40 | 50 |
| 8. | EVS-101 | Environment studies | 2 | | | 10 | 40 | 50 |
| Total Contact Hours/Credits | | | 25 | 20 | 24.5 | 120 | 480 | 600 |

Pass Percentage — 40% and above- Both in External and Internal examination separately.

3rd Semester

| Sr. No | Code | Course Title | Periods/week | | Credits | Marks distribution | | |
|--------|------|--------------|--------------|---|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |

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| | | | | | | | | |
|-----------------------------|-----------|---|----|----|----|-----|-----|-----|
| 1. | HEE - 201 | Introductory Home Science and Extension Education | 4 | | 3 | 10 | 40 | 50 |
| | HEP - 201 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 2. | PCI-201 | Prenatal Care and Infant | 4 | | 3 | 10 | 40 | 50 |
| | PCP-201 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | ITS-201 | Introduction to Sociology | 4 | | 3 | 10 | 40 | 50 |
| 4. | ICL-201 | Introductory Clothing | 4 | | 3 | 10 | 40 | 50 |
| | ICP-201 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 5. | FSC-201 | Food Science | 4 | | 3 | 10 | 40 | 50 |
| | FSP-201 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 6. | FAI-201 | Fundamentals of Art and Interior Decoration | 4 | | 3 | 10 | 40 | 50 |
| | FAP-201 | Practical | | 3 | 1 | 10 | 40 | 50 |
| Total Contact Hours/Credits | | | 24 | 15 | 23 | 110 | 440 | 550 |

As per university norms paper of legal literacy (LLG-100) is compulsory for all 3 rd semester students

Pass Percentage — 40% and above- Both in External and Internal examination separately.

4th Semester

| Sr. No | Code | Course Title | Periods/ week | | Credits | Marks distribution | | |
|--------|---------|---|---------------|---|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |
| 1. | CNT-202 | Community Nutrition | 4 | | 3 | 10 | 40 | 50 |
| | CNP-202 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 2. | DCA-202 | Development in Childhood & Adolescent | 4 | | 3 | 10 | 40 | 50 |
| | DCP-202 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | DDA-202 | Dress Designing & Apparel making | 4 | | 3 | 10 | 40 | 50 |
| | DDP-202 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 4. | MBS-202 | Microbiology & Sanitation | 4 | | 3 | 10 | 40 | 50 |
| 5. | ERD-202 | Extension Education and Rural development | 4 | | 3 | 10 | 40 | 50 |

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| | | | | | | | | |
|-----------------------------|---------|----------------------------|----|----|----|-----|-----|-----|
| | ERP-202 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 6. | HSM-202 | Housing & Space Management | 4 | | 3 | 10 | 40 | 50 |
| | HSP-202 | Practical | | 3 | 1 | 10 | 40 | 50 |
| Total Contact Hours/Credits | | | 24 | 15 | 23 | 110 | 440 | 550 |

Pass Percentage — 40% and above- Both in External and Internal examination separately.

5th Semester

| Sr. No | Code | Course Title | Periods/week | | Credits | Marks distribution | | |
|-----------------------------|---------|-------------------------------------|--------------|----|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |
| 1. | CED-301 | Consumer Education | 4 | | 3 | 10 | 40 | 50 |
| 2. | ITA-301 | Introduction to Adulthood | 4 | | 3 | 10 | 40 | 50 |
| | ITP-301 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | NBC-301 | Nutritional Biochemistry- I | 4 | | 3 | 10 | 40 | 50 |
| | NBP-301 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 4. | NMG-301 | Nutritional Management | 4 | | 3 | 10 | 40 | 50 |
| | NMP-301 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 5. | TTI-301 | Traditional Textiles of India | 4 | | 3 | 10 | 40 | 50 |
| | TTP-301 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 6. | EEC-301 | Extension Education & Communication | 4 | | 3 | 10 | 40 | 50 |
| | EEP-301 | Practical | | 3 | 1 | 10 | 40 | 50 |
| Total Contact Hours/Credits | | | 24 | 15 | 23 | 110 | 440 | 550 |

Pass Percentage — 40% and above- Both in External and Internal examination separately.

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6th Semester

| Sr. No | Code | Course Title | Periods/ week | | Credits | Marks distribution | | |
|-----------------------------|---------|--|---------------|----|---------|--------------------|----------------|-------------|
| | | | T | P | | Internal Marks | External Marks | Total Marks |
| 1. | FDP-302 | Family Dynamics & Personal Empowerment | 4 | | 3 | 10 | 40 | 50 |
| 2. | NBC-302 | Nutritional Biochemistry- II | 4 | | 3 | 10 | 40 | 50 |
| | NBP-302 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 3. | THN-302 | Therapeutic Nutrition | 4 | | 3 | 10 | 40 | 50 |
| | THP-302 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 4. | PSY-302 | Psychology | 4 | | 3 | 10 | 40 | 50 |
| 5. | DPF-302 | Dyeing Printing & Finishing | 4 | | 3 | 10 | 40 | 50 |
| | DPP-302 | Practical | | 3 | 1 | 10 | 40 | 50 |
| 6. | HEE-302 | Household Equipment & Energy | 4 | | 3 | 10 | 40 | 50 |
| | HEP-302 | Practical | | 3 | 1 | 10 | 40 | 50 |
| Total Contact Hours/Credits | | | 24 | 12 | 22 | 100 | 400 | 500 |

Pass Percentage — 40% and above- Both in External and Internal examination separately.

2014
SYLLABUS OF B.SC (HOME SCIENCE)
(1st semester)

Fundamentals of Nutrition

Paper code:-FON-101

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To develop understanding of various nutrients and their requirements for healthy living.
- To develop skills to improve nutritional quality of food.

UNIT I

1. Nutrition: brief history, meaning and importance
2. Functions, digestion and absorption of food

UNIT II

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1. Classification, sources, functions, recommended dietary allowances, deficiency and excess of macro nutrients – carbohydrates, fats, proteins, energy and micro nutrients- fat soluble vitamins-(A, D, E, K), water soluble vitamins:- vitamin B-thiamine, riboflavin, niacin, panthothenic acid, vitamin B12,pyridoxine, vitamin - C, water and fiber
2. Minerals: Calcium, Iron, Zinc, Fluorine, Iodine, Selenium, Copper, Manganese.

UNIT III

1. Nutritional problems of the community and implications for public health
2. Common Nutritional Problems in India - Incidence, Causes, signs, and symptoms
 - Protein Energy Malnutrition (PEM)
 - Micro-nutrient deficiencies – vitamin -A, iron, iodine, fluorosis
 - Hazards to community health and nutritional status

UNIT IV

1. Adulteration in foods
2. Pollution of water
3. Basic terminology in food preparation
4. Methods of cooking- advantages and disadvantages, effect on nutritive values
5. Improving nutritional quality of foods: germination, supplementation, fortification, and enrichment.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

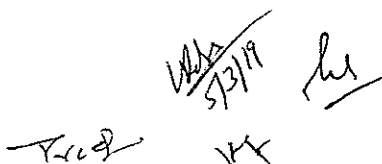
Practical
(1st semester)
Fundamentals of Nutrition
Paper code:-FOP-101

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Use and Care of Kitchen Equipment
2. Standard weights and measures
3. Household measures for raw and cooked food
4. Ingredients for standard recipe
5. Sensory and textural evaluation of food items according to source of nutrient
6. Preparation of recipes rich in: Vitamin A, B, C, D, energy carbohydrate, protein, fat, fiber, Iron and calcium.

Note for practical examiner:



 The above text contains several handwritten signatures and dates. One signature is dated 5/3/19. There are other illegible signatures and initials scattered around.

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Robinson, C.H. Lawler, M.R. Chenoweth W.L. and Garwick A.E. (1986): Normal and Therapeutic Nutrition, 17th Ed. Macmillan Publishing House.
2. Swaminathan M.S. (1985); Essentials of food and Nutrition VI: Fundamental Aspects.
3. Shukla P.K. (1985) Nutritional Problems of India.
4. Park J.E. and Park K. (1994) Textbook of Social and Preventive Medicine.

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SYLLABUS OF B.SC (HOME SCIENCE)

(1st semester)

Textile and its Care

Paper code: TIC- 101

External marks: 40

Total Credits: 03

Internal marks: 10

Total Marks: 50

Objectives:

- To impart knowledge of different textile fibres
- To enhance the understanding of yarns and fabric construction
- To familiarizes students with different types of fabric available in the market

UNIT-I

Textile fibres:

1. Classification of Textile fibers
2. Manufacturing, Properties and their importance to the consumer
Natural: Cotton, Linen, Silk, Wool (Pashmina, Angora) and Jute.
Manmade: Rayon, Nylon, and Polyester.

UNIT-II

Yarn Construction:

1. Methods of Yarn Construction:
 - i. Mechanical Spinning
 - ii. Chemical spinning
2. Classification of yarns:
Simple, Novelty and Bulk yarns and the effect of yarns on finished fabric.

UNIT-III

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Fabric construction:

1. Methods of fabric construction:
2. Weaving, knitting, Felting, braiding, lacing and bonding
Simple or basic weaves, Fancy or decorative weaves
3. Laundry Supplies

UNIT-IV**Supplies necessary for laundry:**

1. Soaps and detergents- Method of preparation, Difference between soap and detergent
2. Starches blues and bleaches.
3. Other reagents: acids alkalies, solvents, and absorbents, different methods of laundry
4. Stain removal- classification of stains, methods of removing stains.
5. Water- Types of water and methods of softening water.

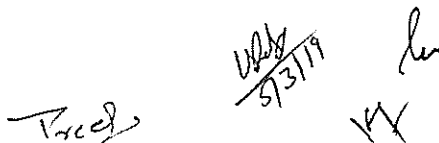
Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

**Practical
(1st semester)
Textile and its Care
Paper code:-TIP- 101**

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50



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1. Identification of Textile fibers:-
visual, microscopic, burning & chemical test
2. Laundry of cotton, Silk, Wool & Synthetic fibers
3. Removal of any 10 stains from white cotton fabrics
4. Fabric Identification: i. Thread count
ii. Weave identification

Note for practical examiner

In practical candidate has to attempt three questions from the entire syllabus along with viva-voce and class report.

References:

1. Corbman, B.P.(1985): textile Fibre to Fabric, Mc Graw Hill, New York.
2. Hollen, N. and Saddler, J: textile Latest Education, Mac Millian & Co., New York
3. Joseph, M.L. (1972) introductory textile Science, Holt Ribenhart of Winston, New York.
4. Tortora, P.G. (1978): understanding Textiles, New York, Mac Millian Publishing CO.

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Title of the Paper: English

Credits:4.5

B.Sc. - I SEMESTER

Unit I

A Brief Introduction to Literature: FICTION for Semester - I

Various Genres of Literature under Study will be introduced briefly to the students along with the names of the famous propagators of concerned genres. In Semester I, students will be introduced to Fiction. (Matter Prescribed)

Note: This Chapter is restricted to MCQs only.

Short Stories – 3 Stories

1. 'Three Questions' by Leo Tolstoy
(A. Sujatha (ed.), *Effective English II*, BPSMV)
2. 'After Twenty Years' by O Henry
(Amrita Sharma (ed.), *Effective English IV*, BPSMV)
3. 'The Refugees' by Pearl S. Buck
(Usha Bande and Krishan Gopal (ed.), *The Pointed Vision*, O.U.P.)

Unit II

Short Stories – 3 Stories (Indian Writers)

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1. 'The Blind Dog' by R.K. Narayan
(Jaibir Hooda, Randeep Rana, Loveleen Mohan (ed.) *Language and Literature II*,
Orient BlackSwan)
2. 'The Child' by Premchand
(Jaibir Hooda, Randeep Rana, Loveleen Mohan (ed.) *Language and Literature II*, Orient
BlackSwan)
3. 'Pigeons at Daybreak' by Anita Desai
(Jaibir Hooda, Randeep Rana, Loveleen Mohan (ed.) *Language and Literature II*,
Orient BlackSwan)

Unit III

Grammar

1. Sentence and Types of Sentences: Affirmative, Negative, Interrogative. (Changing
from Affirmative to Negative to Interrogative etc.)
2. Parts of Speech: A Very Brief Introduction of all Parts of Speech
3. Adjectives
4. Adverbs

Unit IV

Vocabulary & Writing

1. Synonyms and Antonyms - Commonly Used: (List **Prescribed** of 100 Words)
2. Paragraph Writing: Developing a Paragraph with the help of 'hints' given (Hint
Development)
3. Punctuation Marks

Suggested /Recommended Reading for Semester I & II

- 1) Asha Kadyan (ed.), *Chronicles of Time*, O.U.P.
 - 2) Dinesh Kumar and V.B. Abrol (ed.), *Ideas Aglow*, Publication Bureau,
K.U.Kurukshetra
 - 3) Raymond Murphy, *Murphy's English Grammar*, C.U.P
 - 4) N. Krishnaswamy, *Modern English*, Macmillan India
 - 5) *Oxford Advanced Learners' Dictionary*, O.U.P.
-

Semester - I

INSTRUCTIONS TO THE EXAMINER

Title of the Paper: English
Time: 3 Hours

Credits:4.5
Max. Marks: 50

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Note: The student will be required to attempt 5 Questions in all, one from each of the 4 Sections (A,B,C,D).

Question No. 1 (inclusive of all 4 Units) is compulsory.

Question No. 1

The Students will be required to attempt 16 Multiple Choice Questions (Each of One Mark) from all the 4 Units. (16 Marks)

SECTION – A

Question No. 2

- i) Explanation with reference to the context. The Students will be required to attempt one passage from the prescribed Stories. (8)
- ii) Short Answer Type questions based on the stories prescribed. (8)

Question No. 3

- i) Comprehension questions based on a paragraph from the prescribed stories. (8)
- ii) One long (essay type) question of about 150 words from the prescribed stories. (8)

SECTION – B

Question No. 4

- i) Explanation with reference to the context. The Students will be required to attempt one passage from the prescribed stories. (8)
- ii) Short Answer Type questions based on the stories prescribed. (8)

Question No. 5

- i) Comprehension questions based on a paragraph from the prescribed stories. (8)
- ii) One long (essay type) question of about 150 words from the prescribed stories. (8)

SECTION – C

Question No. 6

- i) Exercise on Types of Sentences (04)
- ii) Exercise on Parts of Speech (04)
- iii) Exercise on Adjectives (04)
- iv) Exercise on Types Adverbs (04)

SECTION – D

Question No. 7

- i) Exercise on Synonyms and Antonyms (**Prescribed**) (06)
- ii) Paragraph Writing with Hints Development (05)
- iii) Exercise on Punctuation (05)

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SYLLABUS OF B.SC (HOME SCIENCE)

(1st semester)

Introductory Chemistry

Paper code: ICH- 101

External marks: 40

Total Credits: 02

Internal marks: 10

Total Marks: 50

Objectives:

- Understand with the basic concepts of chemistry
- Understand the molecular structure of elements and compounds
- Develop skills for measurement of physical properties

Unit -I

1. General Introduction to the structure of atom (electron, proton and neutron), Quantum numbers, Aufbau, s principle, Hund's rule, Pauli's exclusion principle.
2. Electronic configuration of atoms (upto atomic no. 30).

Unit II

1. Periodic classification of elements (s, p, d and f block).
2. Periodic trends in properties (Atomic radii, Ionisation energy, Electron affinity, Valency).
3. Chemical bonding (Covalent, Ionic, Coordinate and Hydrogen bonding).
4. Chemical equations: balancing and chemical calculations.

Unit III

1. Chemical energetics: exothermic and endothermic reactions, enthalpies of formation, combustion, neutralization, fusion, solution, vaporization and sublimation, Calorific values of foods and fuels.
2. Mole concept and Concentration units: molarity, molality, formality and normality

Unit-IV

1. Concepts of acids and bases : Arrhenious , Bronsted and Lewis concept of acid and bases
2. Acid base equilibrium, pH, pH Scale and buffer solutions
3. Concept of oxidation - reduction, oxidising and reducing agents, some examples of redox reactions.

Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

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Practical
(1st semester)
Introductory Chemistry
Paper code: ICP- 101

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Detection of extra elements (N, S, X).
2. To find out the strength of given Sodium hydroxide (NaOH) solution by titrating it with given Hydrochloric acid (HCl) solution.

Note for practical examiner

In practical candidate has to attempt three questions from the entire syllabus along with viva-voce and class report.

References:

1. Sienko/ Plane : Chemistry: Principles & Application ,Mc Graw Hill.
2. Robret J. Silbey & Robert A. Albert: Physical Chemistry, John Wiley sons.
3. P.L.Sony: Fundamental of Inorganic Chemistry, S.Chand & Sons.
4. P.L.Soni, O.P.Darmarha: Text book of Physical Chemistry, S.Chand & Sons.
5. S.N.Dhawan: New Course chemistry Vol –I and Vol-II, Pradeep Pub.
6. A.D Chawla: New college practical chemistry Vol -1, Vijaya pub.
7. A.D Chawla: New college practical chemistry Vol -II, Vijaya pub.

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Syllabus of B.Sc. (Home Science)

Basics of Computer(1st Semester)

Paper Code: BOC-101

External Marks: 40

Total Credits: 01

Internal Marks: 10

Total Marks: 50

Objectives:

- To impart understanding of computer use
- To develop skills in use of computers

Unit-1

1. Overview of computer.
2. Components of computer.
3. Input unit output unit Arithmetic unit.
4. Central processing unit- The system concept.

Unit –II

1. Input / output Devices.
2. Secondary storage devices

Unit –III

1. Number system: Decimal, Binary, Octal, Hexadecimal.
2. Representation of information: BCD, EBCDIC, ASCII

Unit –IV

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1. Representation of data: Filed Record files.
2. File organization and access.
3. Security and operating.
4. Introduction to operating system.

Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

Practical
Basics of Computer(1st Semester)
Paper Code: BOP-101

External Marks: 40
Internal Marks: 10

Total Credits: 02
Total Marks: 50

MS windows:-

- A Introduction.
- (b) Exploring the desk top.
- (c) Running multiple programmers.
- (d) Accessories.
- (e) Control panel.
- (f) Managing documents and folders.

MS Word:-

- a Starting MS Word.
- b Creating and formation a Document.
- c Changing fonts and ants size.
- d Table creating and operating.
- e Auto correct, auto text, spell check, thesaurus.
- f Word art, inserting objects.
- g Mail Merge, letter, Label
- h Page setup, print preview.
- i Printing document.

M S Excel:-

- (A) starling Excel
- (b) Worksheet, Inserting Date in rows columns.
- (c) Alignment: - test cropping.
- (d) Sorting date, auto sum.
- (e) Use of function, referring formula cells other formula.
- (f) Alarming cells and ranges, goal seeks.

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- (g) Creation of graphs.
 (h) Integrating work sheet date and charts with word (i) crating Hyperlink to a word documents.
 (j) Page setup print preview printing work sheet:-

References:

- 1 P.K.Sinha: Computer Fundamental
- 2 V.Rajaraman: Fundamental of Computers
- 3 B.Ram: Computer Fundamental and organization
- 4 Sibramanian N: Introduction to Computer

22/6/19
Syllabus of B.Sc. (Home Science)
(1st Semester)
Applied life Science and human physiology - I
Paper Code: ALH-101 ✓

External Marks: 40

Total Credits: 02

Internal Marks: 10

Total Marks: 50

Objectives

- To impart knowledge about life science.
- To develop understanding human systems.

Unit-I

1. Introduction to Biology:

- Living and non-living things, General characteristics of living being
- Branches of biology
- Roll of biology in human welfare and its contribution to solve food and environmental problems.

2. Cell Biology:

- Cell as a unit of life, electron microscopic study of cell.
- Structure and functions of its organelles
- Cell division: mitosis and meiosis

Unit-II

1. Histology:

- Study of animal tissues.
- Structure and functions of tissues : Epithelial, Muscular, Connective and Nervous

Unit-III

1. Digestive System:

Structure and function of GI track, oral cavity, teeth, stomach, liver, intestine and pancreas.

2. Cardiovascular System:

Composition and functions of blood, structure and functions of heart cycle and heart control, venous and arterial system.

Unit-IV

1. Respiratory System:

Structure and functions of lungs and respiratory tract
 Inspiratory and exparatory mechanism, respiratory volumes

2. Excretory System:

Structure and functions of skin and kidney, urine formation, composition of urine and urea cycle.

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Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

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Applied life Science and human physiology - I
Paper Code: ALP-101

External Marks: 40
Internal Marks: 10

Total Credits: 01
Total Marks: 50

1. To study permanent slides of blood and tissues hemoglobin measurement in blood.
2. To study the human skeleton system.
3. To measure the blood pressure and make a chart of blood pressure under different physical condition.
4. To determine presence of glucose in urine sample.
5. To study system of human body through charts.
Digestive system, Respiratory system, Circulatory system,
Excretory system and Reproductive system

Note for practical examiners:-

In practical candidate has to attempt two questions from the entire syllabus (Practical work) along with viva voce and class report.

References:

1. Guyton, A.C., Hall, J.E. (1996): Text book Medical Physiology, 9th Ed prism Books (Pvt.) Ltd Bangalore.
2. Winwood (198): Sear's Anatomy and Physiology for nurses, London, Edward Arnold.
3. Wilson (1989): anatomy and Physiology in Health and illness, Edinburgh, Churchill Livingston.
4. Chatterjee Charan (1988): Text book of Medical Physiology, London, W.B.

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Syllabus of B.Sc. (Home Science)
(1st Semester)

Environmental Studies (Paper Code: EVS-101)

External Marks: 40
Internal Marks: 10

Total Credits: 00
Total Marks: 50

Unit-I

1. Definition, scope and importance need for public awareness.
2. The Multidisciplinary nature of environmental studies.
3. Renewable and non-renewable resources:
 - Forest resources: deforestation, mining, dams and their effects on forest and tribal people.
 - Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water.

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- Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.
- Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture fertilizer-pesticide problems, water logging, salinity.
- Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.
- Land resources: Land as a resource, land degradation, man induced landslides, soil erosion, and desertification.
- Role of individual in conservation of natural resources.

Unit-II

1. Ecosystem:

- Concept of an ecosystem.
- Structure, functions of an ecosystem.
- Producers, Consumers and decomposers.
- Energy flow in an ecosystem.
- Food chain, food web and ecological pyramids.
- Ecological succession.
- Introduction, types, characteristics features, structure and functions of the following ecosystems: 1 Forest ecosystem 2 Grassland ecosystem 3 Desert ecosystem 4 Aquatic ecosystem

Unit-III

1. Social Issues and the Environment:

- From Unsustainable to Sustainable development.
- Urban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people, its problems and concerns.
- Climate change, global warming, acid rain, ozone layer depletion. Wasteland reclamation.
- Consumerism and waste products.

Unit-IV

Field Work (As per UGC core module syllabus)

SYLLABUS OF B.SC (HOME SCIENCE) (2nd semester)

Family Financial Management

Paper code:-FFM-102

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To understand the concept of family income and expenditure pattern.
- To critically analyze the saving and investment avenues.
- To enable students to handle their personal finances.

UNIT-I

1. Introduction of family finance management: Importance and Scope.
2. Family income: Definition and types of family income-money income, real income and psychic income, meaning & sources; Factors affecting personal family income, factors influencing variation in family expenditure; Engle's law of consumption.

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- Budget: definition, advantages, limitations of budgeting, types of budget, steps in budget making.

UNIT-II

- Record keeping: importance, formal and informal method of keeping account of income and expenditure, account ledger, balance sheet or net worth.
- Savings: meaning, objectives and its need; type of savings: compulsory and voluntary, formal and informal.

UNIT-III

- Investments: Meaning & its objectives, types of investments formal and informal viz., shares, stocks, etc.
- Insurance: meaning and various types of insurance.

UNIT-IV

- Taxation: meaning, advantages, types of taxes direct and indirect, tax saving Schemes, calculation of income tax.
- Will: meaning, writing a will.
- Credit: meaning, need of credit, advantages & disadvantages of credit, types of credit, basis of credit, sources of credit.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

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Practical
(2nd semester)
Family Financial Management
Paper code:-FFP-102

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

- 1 Analysis of family income
- 2 Analysis of family expenditure
- 3 Making personal budget
- 4 Making Family Budget
- 5 Planning budget for various income groups, Low, Medium and High income.
- 6 Growing or miniature kitchen garden for supplementation of money.
- 7 Family record keeping
- 8 Filling banks forms like withdrawals and deposits.
- 9 Method of taking insurance policies
10. Calculation of tax

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Gross I.H.& Crandell E.W 1963 Management for modern families Appleton centurion crofte, New York.
2. Nickell, I.P. Dorsary, J.M.1983, Management in the family living, Wiley easternLtd. New Delhi.
3. Steidle and Bratton 1967 work in the Home John wiley and sons, New York.
4. Seetharaman P, Batra S.& Mehran P 2005. An introduction to family resource management, CBS
5. Mundel M 1978 Motion and time study, prentice hall.
6. Sharon V 2005 Modern Home management, Sreenivas Publishers
7. Patni,manju &Sharma,Lalit 2005, Home management,Star publication,Agra.

SYLLABUS OF B.SC (HOME SCIENCE)
(2nd semester)
Fundamentals of Family Resource Management
Paper code:-FRM-102

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

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To enable students

- To understand the fundamentals of family resource management.
- To impart knowledge regarding maximization and conservation of resources.
- To understand the principles of work simplification and ergonomics.

UNIT-1

1. Management: Importance, definition and scope of family resource management.
2. Family: type of family, stages of family life cycle.
3. Value: Characteristics development of value pattern sources of value classification.
4. Goals: meaning, Type of goals, priority setting in goals.

UNIT-II

1. Standards: Meaning Classification of standards, source of standards, standard of living. Interlinking of values, goals & standards.
2. Decision-making: Importance, types of decision, decision-making process, factors affecting decision-making.
3. Management process: Planning: importance, types of plan; Implementing: controlling the action, checking the progress and adjusting the plan Evaluation: and feedback.

UNIT- III

1. Resources: Classification, characteristics and factors affecting use of resources.
2. Time as a resource: Need for time management, Basis of making time & activity Plan, factors to be considered in making time plan, Process of time management.
3. Energy as a resource: Importance of energy management; Fatigue: Types of fatigue, methods of avoiding of fatigue, energy requirement for household activities, Process of energy management.

UNIT-IV

1. Work simplification: definition, importance, techniques of work simplification
2. Classes of mental change, storage, principles and guidelines.
3. Ergonomics: definition, importance. Work, Worker and Workplace Relationship.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

Practical (2nd semester)

Fundamentals of Family Resource Management

Paper code:-FRP-102

External marks: 40

Internal marks: 10

Total Credits: 01

Total Marks: 50

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1. To analyze family: type, size, composition and stage of family life cycle

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2. Identifying a problem and finding solution of it through decision making process
3. Time plans for working day and holiday, implementation and evaluation/feedback
4. Application of work simplification techniques; postures for various activities, pathway chart, process and operation chart.
5. Mundel's classes of change.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report

References:

1. Ruth E. Deacon, Francille M. Firebaugh (1975): Family Resource Management – Principle and Application, Roy Houghton Mifflin Company.
2. Irma, H. Gross, Elizabeth Grandall, Marjoris M. Knoll (1973): Management for Modern Families, Prentice Hall, Inc, Englewood Cliffs, New Jersey.
3. Nickell, P. and Dorsey D. M, Management in Family living. John Wiley and sons, 1976.
4. Swanson, B., Introduction to Home Management, Macmillan and Co., 1981.
5. Dalela S. & Saurabh 1999, textbook of work study and ergonomics. Standard

Title of the Paper: English

Credits: 4.5

B.Sc. - II SEMESTER

Unit I

A Brief Introduction to Literature – NON-FICTION for Semester - II

Various Genres of Literature under Study will be introduced briefly to the students along with the names of the famous propagators of concerned genres. In Semester II, students will be introduced to Non-Fiction. **(Matter Prescribed)**

Note: This Chapter is restricted to MCQs only.

Non-Fiction – 4 Essays

- 1 'My Financial Career' by Stephen Leacock
(Suman Dalal (ed.), *Effective English I*, BPSMV)
- 2 'The Generation Gap' by Benjamin Spock
(Loveleen Mohan, Randeep Rana, Jaibir Hooda (ed.) *Language and Literature I*, Orient BlackSwan)
- 3 'How to Avoid an Argument' by Sam Horn
(Amrita Sharma (ed.), *Effective English IV*, BPSMV)

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Non-Fiction – 4 Essays/Speeches (Indian Writers)

- 1 'Mind and Meditation' by Sri Sri Ravi Shankar (<http://www.huffingtonpost.com>)

B.P.S. Women University, Khanpur Kalan (Sonipat)

A State University established under Haryana State Act 31 of 2006, UGC 2(f) 12(b)

- 2 'Address to the Students of IIT-Hyderabad' by APJ Abdul Kalam (<http://www.youthconnect.in>)
- 3 'The Responsibility of Young Men' by Lal Bahadur Shastri (Loveleen Mohan, Randeep Rana, Jaibir Hooda (ed.) *Language and Literature I*, Orient BlackSwan)

Unit III**Grammar**

1. Tenses
2. Articles

Unit IV**Vocabulary & Writing**

1. Words Describing Weather (List **Prescribed**)
2. Words Describing Feelings (List **Prescribed**)
3. Report Writing with Hints (Reports on events and incidents such as a function in college, an accident you saw on the way etc.)
4. Letter Writing – Leave Letter, Informal Letter

Suggested /Recommended Reading for Semester I & II

- 6) Asha Kadyan (ed.), *Chronicles of Time*, O.U.P.
- 7) Usha Bande and Krishan Gopal (ed.), *The Pointed Vision*, O.U.P.
- 8) Dinesh Kumar and V.B. Abrol (ed.), *Ideas Aglow*, Publication Bureau, K.U.Kurukshetra
- 9) Raymond Murphy, *Murphy's English Grammar*, C.U.P
- 10) N. Krishnaswamy, *Modern English*, Macmillan India
- 11) *Oxford Advanced Learners' Dictionary*, O.U.P.

INSTRUCTIONS TO THE EXAMINER

Title of the Paper: English

Semester - II

Credits: 4.5

Time: 3 Hours

Max. Marks: 50

Note: The student will be required to attempt 5 Questions in all, one from each of the 4 Sections (A,B,C,D).

Question No. 1 (inclusive of all 4 Units) is compulsory.

Question No. 1

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The Students will be required to attempt 16 Multiple Choice Questions (Each of One Mark) from all the 4 Units. (16 Marks)

SECTION – A

Question No. 2

- i Explanation with reference to the context. The Students will be required to attempt one passage from the prescribed essays. (8)
- ii Short Answer Type questions based on the essays prescribed. (8)

Question No. 3

- i Comprehension questions based on a paragraph from the prescribed essays. (8)
- ii One long (essay type) question of about 150 words from the prescribed essays. (8)

SECTION – B

Question No. 4

- i Explanation with reference to the context. The Students will be required to attempt one passage from the prescribed essays. (8)
- ii Short Answer Type questions based on the essays prescribed. (8)

Question No. 5

- i Comprehension questions based on a paragraph from the prescribed essays. (8)
- ii One long (essay type) question of about 150 words from the prescribed essays. (8)

SECTION – C

Question No. 6

Exercise on Tenses (10)
Exercise on Articles (06)

SECTION – D

Question No. 7

Exercise on Words Describing Weather and Feelings- Prescribed (06)
Report Writing (05)
Letter Writing (05)

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SYLLABUS OF B.SC (HOME SCIENCE)
(2nd semester)

Organic Chemistry
Paper code:-OCH-102

External marks: 40
Internal marks: 10

Total Credits: 02
Total Marks: 50

Objectives:

- To acquaint the students with the products beneficial for mankind.
- To make the students familiar with bio molecules.
- To develop competence in food analysis.

Unit –I

1. Classifications of organic compounds.
2. General rules for IUPAC nomenclature of organic compounds.
3. Nomenclature of hydrocarbons (aliphatic and aromatic), haloalkanes, alcohols, carboxylic acids, esters, amines, amides.

Unit- II

1. Types of structural Isomerism.
2. General introduction to geometrical (Cis-trans) and optical isomerism (chiral carbon, monochromatic light, plane polarised light and specific rotation) .

Unit –III

1. Hybridization: sp, sp², sp³ hybridization.
2. Orbital picture diagrams of alkanes, alkenes, alkynes and benzene.

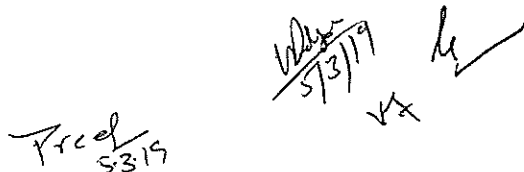
Unit –IV

1. Elementary knowledge of analgesics, antipyretics, antimalarials, antibiotics, antiseptics and disinfectants.
2. General Introduction to biomolecules- Carbohydrates, fat and proteins.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

Practical (2nd semester)



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Organic Chemistry
Paper code:-OCP-102

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Analysis of functional groups (alcohol, phenol, carboxylic acid, ester, aldehyde, ketone and carbohydrates)
2. Preparation of standard solution of oxalic acid and to find the strength of given sodium hydroxide NaOH solution.
3. Study of simple reactions of carbohydrates, fats and protein (two each).

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

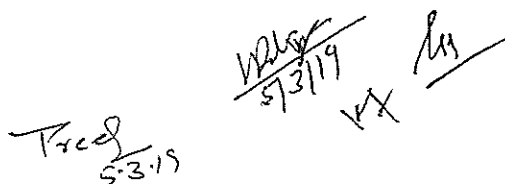
- 1 Ray Q. Brewster, Organic Chemistry, William E McEwen Prantice Hall Publication.
- 2 Chatwal: Organic Chemistry of Natural products,
- 3 Morrison & Boyd: Organic Chemistry, Prantice Hall Publication.
- 4 Linus Pauling: General Chemistry, Dover publication.
- 5 P.L. Soni Fundamental organic Chemistry, S. Chand & Co.

SYLLABUS OF B.SC (HOME SCIENCE)
(2nd semester)

Applied Physics
Paper code:- APH-102

External marks: 40
Internal marks: 10

Total Credits: 02
Total Marks: 50



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Unit-I**Introduction of properties of matter:**

1. Properties of solids-Elasticity (Stress, strain, Hooke's Law, & Elastic Constants) Hardness, Malleability, ductility, Properties of liquids-Surface tension, Viscosity.
2. Archimedes's principle, Properties of gases- Postulate of Kinetic theory of gases, Atmospheric pressure, Brownian motion and Gas equation.

Unit-II**Mechanics:**

1. Introduction of Mechanics, Scalar & Vector Quantity, Newton Laws of motion, Equation of Motion.
2. Type of forces (Centripetal, Centrifugal and Gravitational forces) Friction & its types.
3. Advantages and disadvantages of friction, concepts of ball bearing.

Unit-III**Electricity:**

1. Introduction and Units of Charge, Conservation of Charge, Columba's Law, Electric Current, Electric Potential and their measurement.
2. Ohm's law, Resistance, Joule's Law of Heating and its application (Heater, Electric Iron, Electric Fuse, Toaster and Geyser).
3. Electric Power & its Units, Transformer, House wiring and circuits.

Unit-IV**Heat and Light:**

1. Introduction, Units, Sources and Properties of heat, Temperature and its measurement.
2. Methods of heat transfer, Household Equipment's - Refrigerator, Pressure cooker, Vacuum cleaner, Washing machine.
3. Light and its phenomenon (Refraction, Reflection, Scattering and Dispersion), Velocity of Light.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

Practical
(2nd Semester)
Applied Physics
Paper Code: APP-102

External Marks: 40
Internal Marks: 10

Total Credits: 01
Total Marks: 50

- 1 To find the volume of a given cylindrical body using ver calipers.

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- 2 To find out the diameter of wire using screw gauge.
- 3 To find the value of 'g using simple pendulum.
- 4 To find the specific heat of solid.
- 5 Conductivity by simple method.
- 6 To verify law of refraction using glass slab.
- 7 To verify $i + e = a + d$ using glass prism.
- 8 To track the magnetic lines of force with earth towards North Pole using given magnet.
- 9 To verify ohm's law.
- 10 To find out frequency of a given tuning fork.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. A.N. Puri & K.K. Muhirendru : Intermediate Physics
2. Prof Ganesh Prasad Dube : Heat
3. M.N. Kapoor: A revision Course in Physics
4. Prof. J.P. Goyal & Dr. J.C. Garg: Intermediate Physics
5. Allison Anee: Runningy our Home/management equipment
6. Avery Madelyn - Household physics, Macmillan company
Narcys Abraham; Physics for mode

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SYLLABUS OF B.SC (HOME SCIENCE)
(2nd semester)

Computer Application

Paper code:-CAP-102

External marks: 40

Internal marks: 10

Total Credits: 01

Total Marks: 50

Objectives:

- To develop understanding of computer languages
- To develop skills in use of computers

Unit - I

- 1 Algorithms, Flowcharts, Decision tables
- 2 Computer language : Machine Languages and assembly languages
- 3 High level Languages

Unit - II

1. Compilers, Interpreters
2. Introduction to Basic Languages (Basics, Pascal, C)

Unit - III

1. Types of Communication with and among computers
2. Internet and World Wide Web
3. Computer Network Topology

Unit - IV

1. Interconnecting Network
2. Communication Protocol
3. Introduction to operating system

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

Practical (2nd semester)

Computer Application

Paper code:-CPP-102

External marks: 40

Internal marks: 10

Total Credits: 02

Total Marks: 50

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1. MS Power Point:
2. Starting MS Power Point
3. Auto Wizard, Creating presentation using Autotcontent Wizard
4. Creating and saving a presentation
5. Adding a slide to a presentation
6. Navigating a slide through a presentation, slide sorter, slide show, editing slides
7. Using ClipArt, Word Art Gallery
8. Adding Transition and animation effects, setting timings for slide show, preparing audience handouts

Internet:

- 1 Genesis and use of Internet
- 2 Software and Hardware requirement for Internet
- 3 Accessing the internet, web pages, using a Search Engine, Accessing the internet from MS Office's application.

MS Access:

- 1 Crating Database
- 2 Using database
- 3 Creating table with table wizard
- 4 Creating a table from scratch
- 5 Entering and editing data
- 6 Sorting, Filtering and finding data
- 7 Creating from with from wizard
- 8 Entering data in from

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. P.K.Sinha: Computer Fundamental
2. V.Rajaraman: Fundamental of Computers
3. B.Ram: Computer Fundamental and organization
4. Sibramanian N: Introduction to Computer

SYLLABUS OF B.SC (HOME SCIENCE)
(2nd semester)

Applied life science and human physiology-II
Paper code:-ALH-102

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To develop understanding about human system, parasites and pest.
- To develop understanding about pest which help in storage of food grains at family level

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Unit-I**1 Musculo-skeletal system:**

- Types of muscles and its functions.
- Skeleton system- formation of bone and teeth.

2. Reproductive System:

- Structure and function of male and female reproductive organs
- Structure of sperm and ovum, elementary knowledge of fertilization.
- Structure and function of sex glands and organs including hormones.
- Menstrual cycle.
- Physiology of pregnancy, parturition, lactation and menopause.

Unit-II**1. Nervous system:**

- Elementary anatomy of nervous system.
- Functions of different parts of the brain in brief.
- Automatic, sympathetic and parasympathetic nervous system.
- Special sense.

2. Endocrine glands:

- Functions of pituitary, thyroid, parathyroid and adrenal glands.

Unit-III**1 Common parasitic infections**

- Malaria parasite; physiology and life history
- Entamoeba histolytica
- Nematodes

2. Pests

- Lesser grain borer (Rhizopertha), cowpea weevil, (gram dhora), Tribolium
- Cockroach, termites and other non-insect pest like rats, mice and birds.
- Grain storage: Principles and toxicology.

Unit-IV**1. Human Genetics:**

- Human chromosomes, inheritance and variation in man.
- Abnormalities of autosomal chromosomes and chromosome structure.
- Genetic basis of human disease-sickle cell, anemia, hemophilia, colour blindness and diabetes
- Genetic Counseling

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

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References:

5. Guyton, A.C., Hall, J.E. (1996): Text book Medical Physiology, 9th Ed prism Books (Pvt.) Ltd Bangalore.
6. Winwood (198): Sear's Anatomy and Physiology for nurses, London, Edward Arnold.
7. Wilson (1989) : anatomy and Physiology in Health and illness, Edinburgh, Churchill Livingstone.
8. Chatterjee Charan (1988) : Text book of Medical Physiology, London, W.B.

Syllabus of B.Sc. (Home Science)
(2nd Semester)
Environmental Studies
Paper Code: EVS-102

External Marks: 40
 Internal Marks: 10

Total Credits: 00
 Total Marks: 50

Unit-1**Biodiversity and its conservation:**

1. Introduction-Definition: genetic, species, ecosystem diversity.
2. Biogeographical classification of India.
3. Value of biodiversity: consumptive, productive, social, ethical, aesthetic and option value.
4. Biodiversity at globe; local, national level.
5. India as a mega-diversity nation.
6. Hot spots of biodiversity.
7. Endangered species of India.

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8. Threats to biodiversity: Habitat loss, Poaching & Man - wildlife conflicts, in -situ & ex -situ conservation of biodiversity.

Unit-II

Environmental Acts and conventions

1. Environment Protection Act.
2. Air (prevention & control of pollution) Act.
3. Water (prevention & control of pollution) Act.
4. Wildlife Protection Act.
5. Forest Conservation Act.
6. Issues involved in enforcement of environmental legislation.
7. Some important Environmental Conventions

Unit-III

Environmental Pollution:

1. Definition, causes and effects and control measures of-
 1. Air pollution
 2. Water pollution
 3. Soil pollution
 4. Marine pollution
 5. Noise pollution
 6. Nuclear Hazards
1. Role of individual in prevention of pollution.
2. Solid waste management: causes, effects and control measures of Solid waste.
3. Disaster management: floods, earthquake, cyclone, landslides.
4. Role of individual in prevention of pollution.

Unit-IV

Human Population and the Environment

1. Population growth. Variation among nations.
2. Population explosion-Family Welfare Program.
3. Environment and human health.
4. Human Rights.
5. Value Education.
6. HIV/AIDS
7. Role of Information Technology in Environment & human health.
8. Women & Child Welfare.

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SYLLABUS OF B.SC (HOMESCIENCE)
(3rd semester)
Introductory Home Science and Extension Education
Paper code: HEE-201

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To impart knowledge about home science.
- To develop understanding about extension education.

UNIT -1

1. Important concepts: Education, formal and informal, observation, inferences objective, home, home maker, home making, home scientist etc.....
2. Home science education –meaning, philosophy, need and objectives.
3. Structure and areas of home science.

UNIT -11

1. Job opportunities in home science.
2. Institutions offering home science under agricultural and conventional/traditional universities.
3. Role of home science education in development of individual family and communities.

UNIT -111

1. Important periodicals and personalities in home science.
2. Extension education – definition, meaning, objectives and scope.
3. Need for extension education in India.

UNIT -IV

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1. Elements of extension education.
2. Role and qualities of an extension worker.
3. Extension education and its relationship with other social sciences.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

Practical
(3rd semester)
Introductory Home Science and Extension Education
Paper code: HEP-201

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Orientation of various extension and development programmes.
2. Analysis of different job avenues in home science.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Chandra , A. 1995 .Introduction to home science, new Delhi metropolitan book Co. 640 Ar 897 C .2
2. Blankship, M.L. 1991. Home economics education Boston, Houghton Mifflin company.
3. Dhama, O.P. and Bhatnagar, O.P. 1991. Communication for development. New Delhi, oxford and IBH Publishing Co.
4. Dhama, O.P. 1986. Extension and rural welfare. Agra, ram Prasad and sons. Directorate of extension 1961. Extension education in community development, new Delhi, ministry of food and agriculture, govt. of India.
5. Devdas, R.P. 1978. Methods of teaching home science, new Delhi, national council of education, research and training.

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SYLLABUS OF B.SC (HOMESCIENCE)
(3rd semester)
Prenatal Care and Infant
Paper code: PCI-201

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To introduce the students with stages of human developments
- To develops awareness regarding the developing phases of infancy

UNIT -I

1. Introduction to human development- concept and principles, role of heredity and environment.
2. Stages of human development.

UNIT-II

1. Prenatal care and development- signs of pregnancy, conception, prenatal development, discomforts of pregnancy.
2. Child birth process, complications during birth, prenatal hazards, types of delivery and care of expectant mother.

UNIT-III

1. The neonate- physical appearance, sensory and perceptual abilities.
2. Care of newborn- bathing, clothing and hygiene.
3. Feeding of infant- breast feeding verses artificial feeding.

UNIT-IV

1. Weaning- meaning and importance, method of weaning.
2. Infancy (0-2 years)- development tasks, physical development , motor development, cognitive development and moral development.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.

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- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

Practical
(3rd semester)
Prenatal Care and Infant
Paper code: PCP-201

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

- 1 Observing physical and motor development in infancy.
- 2 Visit to maternity wards: Observation of newborn babies and premature babies, observation of babies: Feeding, bathing, dressing and bed making of infants
- 3 Visit to crèche.
- 4 Planning and conducting recreational activities for children: Rhymes, songs, creative activity.

Note for the examiner:

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Bark, L.E. (1993) Infants, Children and Adolescents Allyn and Bacon, ed. 2 Allon and , 1996.
2. Harris, (1986) Child Development West Publishing Company.
3. Stewart, Clarke A, and Friedman, S. (1987) Child Development: Infancy through Adolescence, John Wiley and Sons. N. York.
4. Papalia, D.E and Olds, S.W (1978) Human Development:, Mc Graw Hill Book Company New York.
5. Mussen, P, H., Conger, J.J & Kagan, J. (1978) Child Development, & Personality, Harper & Row Publisher, New York.
6. Hurlock, E.B. (1992) Personality Development Mc Graw Hill Book Company New Delhi.
7. Santrock, J.W (1996) Child Development, Brown and Branch Mark Publishers, Madison.
8. Arni, K And Wolf G (1999) Child Art with Every Day Materials Tara Publishing.
9. David T. (1999) Teaching Young Children Sage Publication.
10. Ghosh, S (1989) You and your child VHAJ.

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11. Khanna, S, Wolf, G and shanker, A.(1999) Toys and tales with Everybody Materials Tare Publishing.
12. Swaminathan, M.(1998) The First Five Years stage Publications.

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SYLLABUS OF B.SC (HOMESCIENCE)
(3rd semester)
Introduction to Sociology ✓
Paper code: ITS-201

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To understand the socio economic structure and systems.
To recognize once own role in the development process.

Unit-1

- 1 Introduction: Definition, scope, subject matter and importance.
- 2 Relationship to other social sciences: History, economics, political science and psychology.
- 3 Some basic concepts: Society, relationship between individual and society, culture.

Unit-II

1. Groups: Primary and secondary.
2. Marriage: Definition, Hindu marriage- aims, types, prohibition under Hindu marriage- endogamy, exogamy and hypergamy.
3. Social legislations and their effects on marriage: Hindu Widow Remarriage Act 1856, Reliant Act 1929, Special Marriage Act 1954.

Unit-III

1. Social processes: Cooperation, accommodation, assimilation, conflict and competition.
2. Poverty: Causes and cure.

Unit-IV

1. Social change: Industrialization, urbanization, westernization, factors affecting social change.
2. Unemployment: Causes and cure.

Note for examiner

- The examiner will set nine questions in all including one objective type question covering the entire syllabus and 4 questions from each unit.
- The candidate shall attempt five questions in all including the compulsory question and two questions from each unit.
- All questions carry equal marks.

Recommended Readings

1. Gibsert p., Fundamentals of Sociology, Orient Longman, New Delhi.
2. Davis Kingsley, 1948 Human Society, New York Mcamillan.
3. Madan T.N and Majumdar D.N 1956, An Introduction to Social Anthropology Calcutta Publishing House.

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4. Moore, Wilbert 1974 Social Change, Prentice Hall, New Delhi.

SYLLABUS OF B.SC (HOME SCIENCE)
(3rd semester)

Introductory Clothing
Paper code: ICL-201

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To acquaint with proper notions regarding choice of fabrics
- To develop skills in clothing constructions

UNIT- I

Sewing:

1. Common sewing terms, equipment and tools used for sewing: Measuring, Drafting, Pinning, Marking, Cutting and sewing different types of needles, threads.
2. Sewing machine: Parts and function, Basic operations, Machine defects and its remedies, Care and maintenance required.

UNIT-II

Clothing:

1. Invention and evolution of clothes; importance of clothing; biological, sociological and psychological function of clothing.
2. Factors influencing selection of fabrics, Budget, age, occasion, season, figure, occupation and fashion.

UNIT-III

Clothing construction:

1. General principles of clothing construction: Proportion, Harmony, Balance, Emphasis, Rhythm.
Elements of clothing construction: Line, shape, colour, size and texture.
2. Taking body measurements for different types of garments, Drafting and making paper pattern.
3. Preparation of fabrics for garments making, laying out of patterns as per fabric, Plain, Plaid (check), Printed: one directional, two directional, Piled or napped fabric, cutting and marking.

UNIT-IV

Care of clothes:

1. Care and storage of cotton, woollen and silken garments
2. Readymade garment: Comparative study of home-made, ready-made and tailor-made garments as per size, finishing and fabric texture.

Note for The examiner:

- The examiner will set 9 questions, including one objective type.
- The candidates shall attempt five questions in all including the compulsory question.
- All question carry equal marks.

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Practical
(3rd semester)
Introductory Clothing
Paper code:- ICP-201

External marks: 40

Internal marks: 10

Total Credits: 01

Total Marks: 50

Hand stitches:

1. Functional: Temporary and permanent, Basting, Invisible Hemming, Running, Backstitch, Buttonhole, over casting stitch.
2. Decorative: Lazy-Daisy, Satin, Stem, Bullion, French knot, Herring bone

Seams:

1. Plain seams, seam finishing, disposal of fullness, finishing of necklines, plackets, fasteners
2. Taking body measurements
3. Drafting of Child's bodies block and sleeve block
4. Drafting, cutting and stitching of child frock

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Alexander, RR (1977)' Textile product selection, use and care' Boston Houghton.
2. Anna, J (1993): Art of sewing –UBS PD, New Delhi.
3. Bane, A(1974): Tailoring, Mc Graw Hill Publication, New York.
4. Carbman, B.P (1985): Manual fibre to fabric, Mc Graw Hill, New York.
5. Joseph, M.L. (1976): Essentials of textile, Halt Ripen hart of Winston, New York.
6. Saritri, P (1967): Manual for children's clothing, orient longman.
7. Tate and Grisson, "Family clothing".

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SYLLABUS OF B.SC (HOME SCIENCE)**(3rd semester)****Food Science****Paper code: FSC-201**

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To develop understanding of various nutrients and their requirements for healthy living

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- To develop skills to improve nutritional quality of food

UNIT-I

1. Cereals and millets: Production, structure, processing, storage, use in various preparations, variety, selection, cost, cereal products, breakfast cereals, fast foods.
2. Pulses and legumes: Production, structure, selection and variety, processing, storage and variety, use in various preparations, cost, nutritional aspects.

UNIT II

1. Milk and milk products: Composition, classification, selection, quality, cost, processing, storage, use in various preparations nutritional aspects, shelf life and spoilage.
2. Eggs: Production, grade, quality, selection, storage, and spoilage, cost, nutritional aspects, use in various preparations
3. Meat, fish, and poultry: Types, selection, purchase storage, uses, cost, spoilage of fish, poultry and meat cost, nutritional aspects, use in various preparations

UNIT-III

1. Vegetables and fruits: Variety, selection, purchase, storage, availability, cost, use and nutritional aspects of raw and cooked products, use in various preparations.
2. Sugar and sugar products: Types of natural sweeteners, manufacture, selection, storage and use as preserves, stages in sugar cookery.
3. Fats and oils: Types and sources (animal & vegetable) processing, storage, and spoilage, cost, nutritional aspects, use in various preparations.

UNIT IV

1. Raising and leavening agents: Types, constituents, uses in cookery and bakery, storage
2. Spices and condiments: Herbs, extracts, concentrate origin, classification, specifications, procurement, uses and storage
3. Beverages: Tea, coffee, chocolate, and Cocoa powder production, processing, cost and nutritional aspects, use in various preparations and other beverages – aerated, juices etc.
4. Food processing methods: germination, fermentation, boiling, steaming, roasting, broiling, frying and baking.

Note for The examiner:

- The examiner will set 9 questions, including one objective type.
- The candidates shall attempt five questions in all including the compulsory question.
- All question carry equal marks.

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Practical
(3rd semester)
Food Science
Paper code: FSP-201

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Use and care of kitchen equipment
2. Table setting and service
3. Preparing, serving and evaluating food items
4. Preparing, serving and evaluating beverages - fruit and milk based, punches, juices etc
5. Cereals: Variations in parantha, puri , rice, pulao, biryani, lemon rice, tamarind rice, dosa, idli, preparations using noodles and macaroni, spaghetti

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6. Pulses – khatta channa, rajmah, sambher vadas, dhokla, kandavi, kadi etc
7. Vegetables – vegetable koftas, cutlets, baked vegetable dishes & fancy preparations
8. Soups: Variations in soups
9. Stews: Vegetable and mutton
10. Salads and salad dressing: vegetable salads, whole meal salads, frozen salads
11. Milk, paneer & khoa preparation: burfis, gulabjamun, chennamurgi, sandesh, rasgulla
12. Meat, fish and poultry: roasted, baked, fried, curries, kababs and tandoori preparations
13. Desserts: Halwas, variations in ice-creams, soufflés and steamed desserts
14. Cakes variations: creamed, sponge: pastries, swiss rolls, etc. biscuits /cookies and their variations, short crust pastry, choux pastry, flaky pastry & their preparation
15. Sand-witches: open and toasted
16. Snacks: Savoury, mathri, kachori, samosa, sweet ladoos, gujias, malpuras, peanut chikki, til ladoos

Note for practical examiner:

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Levis. (1998) Food Commodities, Heinemann Ltd. London.
2. Goghes. O&Bannion (1970) Introductory Foods, McMillan & Co, New York.

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SYLLABUS OF B.SC (HOME SCIENCE)
(3rd semester)
Fundamentals of Arts and Interior Decoration
Paper code:-FAI-201

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

To enable the students to:

- Understand elements and principle of art and design.
- Gain knowledge of different furnishings.

UNIT-I

1. Elements of Art: Line, size, shape and texture.
2. Principles of design: Balance, harmony, proportion, rhythm and emphasis.
3. Application in home: Application of elements and principles in interior designing and decoration.
4. Design: Definition and type.

UNIT-II

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1. Colour: Colour theories, characteristics (hue, value and intensity); colour wheel, and Colour schemes, warm and cool colours, effect and importance of colour in interior decoration.
2. Interior Decoration: Objectives of home furnishings, changing styles in interior designing and decoration.
3. Furniture and furnishings: Selection, care and maintenance of furniture and furnishings, materials used for construction of furniture and furnish arrangement of furniture.
4. Floor and floor coverings: Classification – Hard and semi hard finishes, soft floor coverings- carpets and rugs, factors affecting their selection, general care and cleaning of floorings.

UNIT-III

1. Window treatments:curtains and draperies: Types, problem windows cornices, valances and headings.
2. Lighting: Types of lighting incandescent and fluorescent, kinds of lighting: direct, indirect, semi-direct and diffused lighting, effect of architectural and decorative lighting in interior decoration, intensity of light, lighting requirement for various activities and areas, lighting fixtures, optical illusion.

UNIT-IV

1. Accessories: Types-functional and decorative, guidelines in selection and use of accessories.
2. Flower arrangement: Flower selection and arrangement, types of flower arrangements.
3. Table setting and table Etiquettes.

Note for the examiner:

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

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Practical
(3rd semester)
Fundamentals of Arts and Interior Decoration
Paper code:-FAP-201

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Free hand drawing, memory drawing and sketching.
2. Preparation of colour wheel and colour schemes.
3. Floor decoration.
4. Gift-wrapping.
5. Table setting: formal, informal and buffet
6. Optical illusion created by line and colour.
7. Visit to hotels and furniture shop.
8. Furniture arrangement in different rooms.
9. Preparation of accessories for interior decoration.
10. Reports on market surveys on furnishing.
11. Window treatment.
12. Computer added interior designing.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Tssie, A. The house, its plan and use. Oxford and IBH Publishing Co. New Delhi
2. Anna Hung, R. (1961) . Home furnishing, wiley, eastern Pvt. Ltd.

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3. Goldstein, H. and G V (1967) .Art in everyday, New Delhi.
4. Bhat Pranav and Goenka, shanita (1990).the Foundation of art andesign, Bomday Lakhani Book Depot.
5. Dr Sharma, K. Home Management shiva prakashan Indore M. P.

SYLLABUS OF B.SC (HOME SCIENCE)
(4th semester)

Community Nutrition

Paper code: CNT-202

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- Be familiar with the common nutritional problems of the community.
- Get exposed to the schemes programmes and policies of government of India to combat malnutrition.

Unit-1

- 1 Concept and scope of community nutrition.
- 2 Food habits and dietary patterns in India.
- 3 Factors affecting foods habits: Family size, composition, structure, economic status, education, working status of parents, education and Socio-cultural factors.

Unit-II

1. Nutritional problems: Protein energy malnutrition, fluorosis, anaemia, vitamin deficiency.
2. Nutrition education

Unit-III

1. Hazards to community health and nutritional status
2. Food adulteration, food standards, common adulterants and their ill effects on health
3. Common household methods to detect adulterants
4. Consumer protection from adulterated food

Unit-IV

1. Nutrition and health intervention programs in India:
2. School lunch programs- objectives.
3. Mid- day meal programs for school children.
4. Special Nutrition Programs (SNP).
5. Integrated Child Development Services (ICDS).
6. Tamilnadu government nutrition's meal programmes.
7. Tamilnadu Integrated Nutrition Programmes (TINP).

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Note for examiner:

- The examiner will set nine questions in all including one objective type question covering the entire syllabus and 4 questions from each unit.
- The candidate shall attempt five questions in all including the compulsory question and two questions from each unit.
- All questions carry equal marks.

**Practical(4th semester)
Community Nutrition
Paper code: CNP-202**

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

- 1 Preparation of low cost nutritious recipes.
- 2 Preparation of nutritious recipes
- 3 Collection of food samples from local market and detection of common adulterants.

Note for the examiner

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

- 1 Levis. S (1998) Food Commodities, Heinemann Ltd. London.3
- 2 Goghes. O and Bennion m (1970) Introductory Foods, McMillan & Co. New York.
- 3 Pyke M (1974) Catering services & Techonology, John Murey Pub. London.
- 4 Phillip T.E (1988) Modern Cookery for Teaching and the trade, 4th Edition Orient Longman Bombay.
- 5 Pruthi J.S (1979) Spices and Condiments, National Book Trust, New Delhi.
- 6 Prevention of Food Adulteration Act (1994) Govt. of India publishing company.

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SYLLABUS OF B.SC (HOME SCIENCE)

(4th semester)

Development in Childhood and Adolescence

Paper code: DCA-202

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To understand the various stages of development in childhood.
- To make the students aware of various problems of childhood.

UNIT -I

1. Concept of early and late childhood
2. Developmental tasks :(2-12) years
 - Physical
 - Motor
 - Cognitive
 - Language
 - Emotional
 - Social development

UNIT -II

1. School: Significance and functions of school in childhood
 - Effects of success & failure in school
 - Common childhood problems
 - Role of parents in solving the problems of childhood

UNIT- III

1. Concept of adolescent: definition
 - Different views regarding the menstrual cycle.
 - Physical development, growth spurt, primary and secondary sexual characteristics.
 - Early and late maturing adolescents
 - Developmental Tasks: educational and vocational guidance

UNIT- IV

1. Identity: Definition, factors affecting positive and negative outcomes.
2. Heightened emotionality: Meaning, causes, expression.
3. Problems of an adolescent, role of parents in solving them.

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Note for examiner:

- The examiner will set nine questions in all including one objective type question covering the entire syllabus and 4 questions from each unit.
- The candidate shall attempt five questions in all including the compulsory question and two questions from each unit.
- All questions carry equal marks.

Practical
(4th semester)
Development in Childhood and Adolescence
Paper code: DCP-202

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External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

- 1 Technique and methods used in the study of child and adolescent
- 2 Observing relevant development in each of the following stages- pre-school, (Motor, emotional and social) parent child interaction, child-child interaction
3. Planning and conducting recreational activities for children.
- 4 Visit to Bal-Bhawan, Crèche, and play-school.

Note for practical examiner:-

1. The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

REFERENCE:

1. Bark ,L.E.(1993)Infants ,Children,and Adolescents Allyn and Bacon ,ed .2Allonand 1996.
2. Harris ,(1986) Child Development West Publising Company.
3. Stewart, Clarke A. and Fried man .S.(1987)Child Development :Infancy through ADDEescence.John Eiley and Sons .N.York.
4. Papalia, D.E. and olds, S.W.(1978) Human Development, Mc Grow Hill Book
5. Company New York.
6. Musssen, P.H., Conger, J.J. & Kagan, J. (1978) Child Development , & Personality, Harper & Row Publisher. New York
7. Hurlock, E.B. (1992) personality Development Mc Graw Hill Book Company New Delhi.
8. Santrock, JW (1996) Child Development , Brown and Branch Mark Publishers, Madison.
9. Arni, K. And Wolf G (1999) Child Art with Every Day Materials Tara Publishing
10. David T.(1999) Teching Young Children Sage Publication.
11. Ghosh, S (1989) You and your child VHAI
12. Khanna , S, Wolf , G. and shanker, A. (1999) Toys and tales with Everyday Materials Tare Publishing.
13. Sawminathan , M. (1998) The First Five Years stage Publications.

SYLLABUS OF B.SC (HOME SCIENCE) (4th semester)

Dress Designing and Apparel Making
Paper code: DDA-202

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

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Objectives:

- . To provide the knowledge pertaining to basic principle of dress designing
- . Familiarize with the essentials of apparel making

UNIT-I**Designing:**

1. Meaning ,scope and importance of apparel designing
2. Elements of design: Line, form, shape, colour and texture, and its appropriate use
3. Principals of design: such as balance, harmony, rhythm, proportion and emphasis

UNIT-II**Fashion:**

1. Fashion terminology: Fashion, Style, FAD, and Stereo-type
2. Fashion cycle: Introduction, Rise, Culmination, decline
3. Sources of fashion, Theories of fashion
4. Factors favouring & retarding fashion

UNIT-III**Apparel making Techniques:**

1. Meaning and scope of Drafting
1. Methods of pattern making: Flat pattern- slash method, pivot method.
2. Principles of pattern making: Dart manipulation and fullness
3. Paper pattern: flat pattern making, process of designing by flat pattern technique.
4. Draping: meaning and importance of draping in designing process.

UNIT-IV**Fitting:**

1. Fitting standards
2. Factors responsible for good fit
3. Common fitting problem and their remedies

Fabric for garment making:

1. Working with different types of fabrics: Knits, Velvet, Satin, Beaded, Laced, Sheer, metallic and Leather fabric
2. Estimation of material required for different garments

Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

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Practical
(4th semester)
Dress Designing and Apparel Making
Paper code:- DDP-202

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

Computer aided designing:

1. Fundamental of designing softwares; detailed use of designing, drawing and editing tools
2. Creating motifs and design development; use of computer colour palettes for colouring the design
3. Developing designs for various end uses; designing the dresses for the casual and party wears

Survey and dress making:

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1. Survey of different fabrics available in market
2. construction of adult bodice block and sleeve; drafting, cutting and stitching of kameez, salwar or petticoat and blouse

Note for the examiner:

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Bane, A. (1974); Tailoring McGraw Hill.
2. Bane, A. (1979); Flat pattern design, McGraw Hill.
3. Bray Nathalie (1978); Dress pattern designing, London, Crosby Lockwood & staples.
4. Sodhia, M. (2008); Design studies, Kalyani publishers, New Delhi
5. Mullick, P. (2007); Garment construction skills, Kalyani publishers, New Delhi

SYLLABUS OF B.SC (HOME SCIENCE)(4th semester)**Microbiology and Sanitation****Pap****er code: MBS-202**

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To develop the awareness among the students about role of microorganisms in the spoilage of different kinds of food.
- To aware the students about food born infection and various diseases.
- To aware the students about sanitation and personal hygiene.

UNIT-I

1. Classification and characteristics of microorganisms.
2. Introductory knowledge of bacteria and fungi.
3. Primary sources of microorganism

UNIT-II

1. Role of micro organisms in the spoilage of different types of food.

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2. Preservation of cereal products, eggs and poultry products, milk and milk products and canned foods.
3. Fermented foods and their benefits.

UNIT-III

1. Public health hazards due to contaminated food; food borne infections and intoxication, symptoms, mode and sources of infection transmission.
2. Investigation and defection of food borne diseases.
3. Chemical Methods used in destruction of microorganism sterilization and disinfections.

UNIT-IV

1. Sanitary indices of food, milk and water soentary qualities, bacteriological analysis of food, water and milk.
2. Community sanitation, food sanitation and personal hygiene.

Note for the examiner:

- The examiner will set 9 questions, including one objective type questions covering the entire syllabus and 4 questions from each unit
- The candidate shall attempt 5 questions in all including the compulsory question
- All question carry equal marks.

References:

1. Adams, M.R. and moss, M.O.(1995), Food Microbiology, New Age International Pvt. Ltd.
2. Ananthanrayan, R. and Jayarann Paniker, C.K. [1986], Text Book of Microbiology.
3. Frazier, C. and west off, C.(1998), Food Microbiology, Tata McGraw-Hill Publishing Co.Ltd.
4. Powar, C.B. and Daginawala, H.F. [1986], General Microbiology, Himalaya Publishing House, New Delhi.
5. Sethi, M. and Surjeet, M. [1993], Catering Management, New time Internation Pvt. Ltd.

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SYLLABUS OF B.SC (HOME SCIENCE)
(4th semester)
Extension Education and Rural Development
Paper code:-ERD -201

External marks: 40
 Internal marks: 10

Total Credits: 03
 Total Marks: 50

Objectives:

- Appreciate the role of extension; especially in home science and community development.
- To develop and understand the importance of extension education.
- To impart knowledge about different developmental programme and technologies in rural areas.

UNIT -1

1. Principles, philosophy and importance of extension education.
2. Role of extension education in development.
3. Extension methods.

UNIT -11

1. Role of home scientist in community development.
2. Community development: meaning, concept, and objectives, set up and functions of community development program at central, state, district and village level.
3. Community development for national integration.

UNIT -111

1. Corrective approaches for sustainable ext education services in rural India.
2. Low cost appropriate technologies for rural areas.

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3. Panchyati raj: three tier system of administration.

UNIT -IV

1. Developmental program's for the welfare of women and children.
2. Role of home science in solving rural problems of illiteracy, poverty and poor health.
3. Programme planning; meaning, definition, nature, scope and importance of programme planning in extension.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(4th semester)
Extension Education and Rural Development
Paper code:-ERP -201

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

PRACTICAL

1. Visit to women and children welfare learn the organizational set up and functions.
2. Visit to primary health centre and sub centre of primary health centre.
3. Observing activities of women extension work in the field.
4. Construction, use and maintenance of low cost rural technologies.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report

References:

1. Blankship, M.L. 1991. Home economics education Boston, Houghton Mifflin company.
2. Chandra , A. 1995 .Introduction to home science, new Delhi metropolitan book Co. 640 Ar 897 C .2
3. Dhama, O.P. and Bhatnagar, O.P. 1991. Communication for development. New Delhi, oxford and IBH Publishing Co.
4. Dhama, O.P. 1986. Extension and rural welfare. Agra, ram Prasad and sons. Directorate of extension 1961. Extension education in community development, new Delhi, ministry of food and agriculture, govt. of India
5. Devdas, R.P. 1978. Methods of teaching home science, new Delhi, national council of education, research and training
6. Pattni M. Thakur. U.S. 2002. Extension Education and community development, Indore, shiva publication
7. Singh,R.(1987), A textbook of Extension Education. Ludhiana Publishing Co.

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SYLLABUS OF B.SC (HOME SCIENCE)
(4th semester)
Housing and Space Management
Paper code:-HSM-202

External marks: 40
 Internal marks: 10

Total Credits: 03
 Total Marks: 50

Objectives:

- Understand Housing schemes, Selection of site, House plan functional designs of house.
- Main knowledge about building materials.
- Understand about paints and distemper.

UNIT-I

1. House: Importance needs at different stages of family life cycle, difference between house and home.
2. Selection of site: Physical conditions, practical convenience, future community development and legal aspects.

UNIT-II

1. Self-owned and rented houses: Advantages and disadvantages.
2. Housing schemes for rural and urban families.
3. Building byelaws.

UNIT-III

1. House plan: Architectural symbols, making floor plan making, types of plan, planning of rooms for different activities, factors affecting planning of a house orientation, roominess, grouping, circulation, privacy, flexibility, sanitation, ventilation, economy elegance, fire protection.
2. House wiring and electrical fitting.

UNIT-IV

1. Functional designing: Designing of work area like various kitchen layouts, kitchen centers; storage area; planning storage in kitchen bathroom and other rooms.
2. Building materials: various building materials like stone, clay, steel, cement, timber etc, low cost building materials like hollow bricks etc.
3. Paints and distempers: various paints and finishing materials.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(4th semester)
Housing and Space Management
Paper code:-HSP-202

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Architectural symbols used in house plans.
2. House plans for different income groups.
3. Planning storage areas in store and other room.
4. Planning of multipurpose room.
5. Planning different type of kitchens.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Tssie, A. The house, its plan and use. Oxford and IBH Publishing Co. New Delhi
2. Deshpande R.S. modern Ideal Homes for India, Poona united Book Corporation
3. Devdas, R. 1970 Better Homes Oxford University Press New Delhi
4. Sharma, K. Home Management shiva prakashan Indore M. P.
5. Craig & Rush 1969. Home with character UBS, Delhi.
6. Deshapande, R.S.1981. Build your own home, united book Corporation.
7. Megarth, H. 1982. About the house. Oxford University Press, New Delhi.

Syllabus of B.SC (HOME SCIENCE)

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(5th Semester)
Consumer Education
Paper Code: - CED-301

External marks: 40
 Internal marks: 10

Total Credits: 03
 Total Marks: 50

Objectives:

- Understand the role of consumer in the market.
- Become aware of marketing conditions and rights and responsibilities of consumers.
- Recognize the problems in buying and know the means of redressal.

UNIT-1

1. Consumer Education: Meaning and Definition.
2. Consumer: Role and importance of consumer, consumer choice like rational, impulsive, habitual choice and factors influencing consumer choice.
3. Consumerism: Concept of consumerism and its growth.

UNIT-11

1. Consumer rights and responsibilities: Right of safety, to choose, to be heard, to be informed, to seek redressal, to healthy environment; Consumer responsibilities.
2. Market: Types of market, segmentation and characteristics, functions, market information news and channels of distribution.

UNIT-111

1. Consumer Needs: What to buy, when to buy, how to buy, how to buy and how much to buy.
2. Consumer buying problems: Adulteration, faulty weights & measures and other mal practices in the market like unfair trade practices, selling tactics to promote sales.
3. Consumer Information: Advertising- its nature, scope and types: packages and labels.

UNIT-1V

1. Consumer Protection: Standards and standardization.
2. Consumer Welfare: Government laws and legislations, consumer organizations.
3. Guidelines: to become better buyer-consumer.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.

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- All questions carry equal marks

References:

1. Tripath, Naresh Chander and Tripathi, Garima, "Consumer Economics", Vinod Pustak Mandir, Agra-2.
2. Sharma, Karuna and Verma, Sandhya (2008), "Family Finance & Consumer Education", Shiva Publication, Indore.
3. Aggarwal, S.C (2004), "Principles of Marketing", Dhanpat Rai Publishing Company, New Delhi.
4. Welers, Don (1974), "Who Buys-A Study of the Consumer", Unit I, IV and VI.
5. Sarkar, A., "Problem of Consumers in Modern India", Discovery Publication House, (Unit VII-X).

Syllabus of B.SC (HOME SCIENCE)

(5th Semester)

Introduction to Adulthood

Paper Code: -ITA-301

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To develop the understanding of various stages of development in human life.

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- To understand the problems faced during different stages of lifecycle and ways to solve them.

UNIT-1

1. Characteristics of Adulthood
2. Developmental tasks of adulthood
3. Hazards of adulthood

UNIT II

1. Adjustment in adulthood: vocational, marital- mate, in laws, sexual, parenthood.
2. Marriage-functions, types and alternatives of marriage.
3. Family- functions, stages, lifecycle, forms of family

UNIT III

1. Characteristics of middle age
2. Developmental tasks of middle age
3. Personal and social, vocational, family hazards of middle age

UNIT IV

1. Characteristics of old age
2. Developmental tasks of old age
3. Personal, social, physiological hazards of Old age

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks

Practical (5th semester)

Introduction to Adulthood Paper code:-ITP-301

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

Use of interview Method to study adult roles...

1. Father/Husband
2. Home maker, professional, working women
3. Mother /wife
4. Single mother /father
5. Grandfather /mother

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6. College going adults

Note for practical examiner:-

1. The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Sharma,(1999),Understanding Adolescence New Delhi ,NBT.
2. Balk, D.E.(1995),Human Development N.Ybooks /code publishing company
3. Rice ,F.P.(1995),human Development A life Span Approach N.Y.Prentic Santrock ,
4. J.W.(1997),Life Span Development London .Brown and bench
5. Bark,L.E.(1997),Life Span Development .N.Y.Aiyn and Bacon.
6. Elizabeth B. Herlock- Development psychology

Syllabus of B.SC (HOME SCIENCE)(5th Semester)**Nutritional Bio Chemistry-1****Paper Code: -NBC-301**

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To introduce the students with the chemical changes taking place in living organisms.
- To make the students familiar with bio molecules.
- To develop competence in food analysis.

Unit –I

1. Carbohydrates-Definition, classification, structure and properties of monosaccharides (glucose, fructose, galactose), disachharidse (maltose, lactose, sucrose) and polysachhrides (Starch, Cellulose).
2. Metabolism of Carbohydrates – Glycolysis, glycogenesis, gluconeogenesis and glycogenolysis.

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Unit –II

1. Proteins – Definition, classification, structure & properties of amino acids and proteins.
2. Metabolism of Proteins – General reaction of amino acid metabolism, urea cycle.

Unit III

1. Enzymes- definition, classification of enzymes, specificity of enzymes, Factors affecting velocity of enzyme catalyzed reactions.
2. Lock and key hypothesis of enzyme action, Enzyme inhibition, Iso-enzymes, anti-enzymes.

Unit - IV

1. Lipids – Definition, classification, structure and properties of lipids, Significance of acid value, saponification value and iodine value.
2. Metabolism of Lipids: β -Oxidation and biosynthesis of fatty acids, synthesis and utilization of ketone bodies, ketosis, fatty liver.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(5th semester)
Nutritional Bio Chemistry-1
Paper Code: -NBP-301

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Carbohydrates
 - (a) Reactions of carbohydrates and their identification
2. Fats
 - (i) Reactions of fats and oils.
 - (ii) Determination of acid value and saponification value.

Note for practical examiner:-

1. The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Eric E. Conn ,Paul K. Stumpf: Outlines of biochemistry, John Wiley & sons.
2. Edward Stanton West, Wibert R. Todd:Text book of biochemistry, Oxford Publication .
3. Robert K. Murray & Daryl K.Granner: Harper' biochemistry ,Mc Graw Hill.
4. David T.Plummer Tata: An Introduction to practical biochemistry, Mc Graw Hill.
5. Keith Wilson & John Walker : Practical biochemistry – Principles

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Syllabus of B.SC (HOME SCIENCE)

(5th Semester)

Nutritional Management

Paper Code: -NMG-301

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To develop understanding of various nutrients and their requirements for healthy living.
- To develop skills to improve nutritional quality of food.

UNIT-I

1. Definition of health and nutrition, effect of nutrition on health.
2. Energy requirement: Factors affecting energy requirements, BMR, activity, age, diet induced thermo genesis, (SDA), Physiological conditions.

UNIT II

1. Concept of nutritionally adequate diet and meal planning, importance and factors affecting meal planning, nutritional, socio-cultural, religious, geographic, economic, availability of time and material resources.

UNIT-III

1. Nutrition through the life cycle (at different activity and socio-economic levels
Nutritional Requirements, nutritional problems, food selection for:-
 - Infancy
 - Preschool child
 - School going child
 - Adolescence male and female

UNIT IV

1. Nutritional requirements, problems, and food selection during
 - Adulthood
 - Pregnancy
 - Lactation
 - Old age

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No.1 is compulsory.
- All questions carry equal marks.

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Nutritional Management

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Paper code:-NMP-301

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

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Planning & preparation of diets for different age groups at different socio-economic and activity levels in relation to nutrient requirements

- Adult hood
- Pregnancy
- Infancy
- Preschool
- School going
- Adolescence
- Old age

Note for practical examiner:-

1. The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Krause.M.V. and Mahan, L.K.(1986):Food Nutrition and Diet Therapy;AlanR.Lissners Co. London
2. Passmore.R and Davidson's (1986): Human Nutrition and Dietitics, Livingstone Publishers
3. Robinson,C.H. Lawler,M.R.Chenoweth,W.L.Garwisk, A.E.(1986) Normal and Therapeutic Nutrition, Macmillan Publishing House Co.
4. Willams,S.R.(1989):Nutrition and Diet Therapy 4th edition,C.V. Mosby Co.
5. Shils, M.E.Olson J.A.Shike,M.ed.s.(1994) Modern Nutrition In Health and Disease, 8th ed. Lea and Febiger Awaverly Co.

SYLLABUS OF B.SC (HOME SCIENCE)

(5th semester)

Traditional Textiles of India

Paper code: TTI-301

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objective:

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To impart knowledge regarding Indian traditional textiles

UNIT-- I

Importance of Indian traditional textiles in historical perspective

- **Cotton:** Muslins and Jamdanis of Bengal and UP Dhotis and saris of Andhra Pradesh, Madhya Pradesh Maharashtra, Karnataka and Tamil Nadu.
- **Silks:** brocades of Varanasi (Kunkhabs), Bengal (Baluchari) Maharashtra (Paithani), Gujrat (Tancois), Andhra Pradesh, Tamil Nadu and Karnataka.
- **Woollen** – Shawls of Kashmir, Punjab, Himachal Pradesh

UNIT-- II

Indian Hand Embroidery

- Origin of embroidery in India and its place in everyday life
- Traditional embroideries of India: Kashida of Kashmir, Chamba rumal of Himachal Pradesh, Phulkari and chope of Punjab, Kasuti of Karnataka, chikankari and zari work of Uttar Pradesh, Kantha of Bengal, Manipuri embroidery, applique and patch work of Bihar, Kutch and Kathiawar embroideries of Gujarat.

UNIT –III

Printed textiles and carpets:

- Bandhanis of Rajasthan and Gujrat.
- Batik of Coromandal
- Printing and painting – Styles and methods of printing (Hand block printing, Kalamkari)
- Carpets of India: Kashmir, Uttar Pradesh, Warangal and Amritsar;

UNIT- IV

Woven textiles:

- Study of traditional woven textiles of India: Dacca muslin, brocades
- Sarees - Jamdani, Baluchari, Pochampalli, Patola, Ikat, Kanchipuram, Chanderi, Maheshwari and Vichitrapuri;
- Woven shawls of Kashmir, Himachal Pradesh and North Eastern states;

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(5th semester)
Traditional Textiles of India
Paper code:-TTP- 301

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Making four Knitting patterns (6'x6') any designs.
2. Making samples of traditional Embroideries, Kasida of Manipur, Kantha of Bangal, Phulkari of Punjab.
3. Making one article of Chickenkari

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References:

1. Kadolph, Sara, j. & Langboard, Annal.,(1998), Textiles,(Eight edition), Prentice-Hall Inc., New jersey.
2. Tortora, P.G., (1974), Understanding textiles, Macmillan publishing ,Co., Inc.,New York.
3. Corboman, B.P. (1985), Textile fiber to fabric, Gragg division Mc-Graw Hill Inc. New Deih.
4. Grosicki Z.I. Wastson : Textile Dyeing and colour Newness. Butterworths, London.
5. Blinow, I. and Belay, S. (1988): Design of Woven Fabrics, Mir Publishers, Moscow.

SYLLABUS OF B.SC (HOME SCIENCE)(5th semester)**Extension Education and Communication****Paper code:-EEC-302**

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

To enable students

- develop and understand the importance of communication
- enable the students the different contact methods
- understand the audio and visual aids

UNIT -1

1. Meaning, scope, function and importance of communication.
2. Elements of communication process.

UNIT -11

1. Problems and barriers of communication.
2. Communication effectiveness.

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UNIT -111

1. Communication methods- meaning and classification according to use and form.
2. Advantage and limitation of individual contact methods farm and home visit, telephone call, office call, result demonstration, meeting, group discussion, tour, small group training etc.

UNIT -1V

1. Audio visual Aids: Classification, scope, advantages, limitation and factors the selection and use of audio visual aids.
2. Role of media in rural development.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory
- All questions carry equal marks.

Practical
(5th semester)

Extension Education and Communication

Paper code:-EEP-302

External marks: 40

Internal marks: 10

Total Credits: 01

Total Marks: 50

- 1 Preparation and use of different Audio Visual Aids in urban and slum area, chart, poster, leaflets, pamphlets, flash card, flip card.
- 2 Preparation of puppet as a media of communication and writing drama for puppetry.
- 3 Preparation and user of suitable material for rural women regarding health, nutrition, family planning and supplementing occupation.
- 4 write a news article for a Newspaper
- 5 write a script for Radio programme
- 6 write a script for a TV programme

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report.

References:

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6. Chandra , A. 1995 .Introduction to home science, new Delhi metropolitan book Co. 640 Ar 897.
7. Blankship, M.L. 1991. Home economics education Boston, Houghton Mifflin company.
8. Dhama, O.P. and Bhatnagar, O.P. 1991. Communication for development. New Delhi, oxford and IBH Publishing Co.
9. Dhama, O.P. 1986. Extension and rural welfare. Agra, ram Prasad and sons. Directorate of extension 1961. Extension education in community development, new Delhi, ministry of food and agriculture, govt. of India
10. Devdas, R.P. 1978. Methods of teaching home science, new Delhi, national council of education, research and training
11. Pattni M. Thakur. U.S. 2002. Extension education and community development, Indore, shiva publication.

Syllabus of B.SC (HOME SCIENCE)
(6th semester)

Family Dynamics and Personal Empowerment
Paper code:-FDPE 302

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- Understand the dynamics of families in distress and crises.
- Acquire knowledge and insights about the dynamics of contemporary marriage and family system in India.
- To develop an insight into the issues and strategies for empowerment of women in India.

UNIT-I

1. Family: Meaning, definition, joint family, characteristics ,merits and demerits \
2. Causes of lower position of Hindu women.
3. Status of Indian women before Independence.
4. Position of women in present India.

UNIT-II

1. Causes of reform in the status of Indian women.
2. Families with marital disharmony and disruption judicial separation and divorce Act.
3. Families in violence and abuse, Dowry victimization, Dowry prohibition Act 1961.

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4. Sexual discrimination and exploitation of Indian women.

UNIT-III

1. Prostitution Suppression of immoral traffic in women and girls Act 1956.
2. Marriage: Meaning, definition, objectives and problems.
3. Special issues and problems concerning women:-Infanticide, feticide, unmarried mothers and child marriage.
4. AIDS awareness and Education

UNIT-IV

1. Mass media and women Empowerment.
2. Social welfare programs and their impact.
3. Education and employment.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

References

1. Auguston, J.N. (Ed.) (1992), The family in Transition. New Delhi. Vikash publishing house.
2. Coleman. J.C.(1986); Intimate relationship. Marriage and the family, Chicago, Macmillan publishing Co.
3. Coser. Rose(1975); The family, its structure, and function. New York, Macmillan publishing Co.
4. Gupp, G.R.(1976) Family and social change in Modern india. New Delhi, Vikas publishing house.
5. Gore M.S.(1978) Urbanization and family and change in India Bombay Popular prakashan.
6. Hurter Mark (1981); The changing family; comparative Perspective, New York John Wiley and Sons.
7. Lal A.K,(1990) The urban family; A study of Hindu social system, New Delhi; Vikas Publishing House.

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Syllabus of B.SC (HOME SCIENCE)
(6th Semester)
Nutritional Bio Chemistry-II
Paper Code: -NBC-302

External marks: 40
 Internal marks: 10

Total Credits: 03
 Total Marks: 50

Objectives:

- To introduce the students with the chemical changes taking place in living organisms.
- To make the students familiar with bio molecules.
- To develop competence in food analysis.

Unit –I**Biological oxidation:**

1. Biological oxidation– Respiratory carriers, Redox potentials of respiratory carriers, Electron transport chain.
2. Oxidative phosphorylation, energy rich compounds.
3. Citric acid cycle.

Unit-II**Nucleic acids:**

1. Components and organization of nucleic acids, Covalent structure of RNA and DNA , Neucleic acid double helices Modified DNAs .Functions of DNA and RNA.
2. Replication, transcription, genetic code. Biosynthesis of Proteins.

Unit –III**Vitamins:**

1. Chemistry and biochemical role of fat soluble vitamins – A, D, K & E.
2. Chemistry and biochemical role of water soluble vitamins - B1, B2, B6, Niacin and C.

Unit -IV

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Hormones and Minerals:

1. Hormones – Biological role of hormones of pituitary, Adrenal Cortex and Medulla, Thyroid, Parathyroid, Pancreas.
2. Minerals – Biochemical role of inorganic elements.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt any one from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(6th semester)
Nutritional Bio Chemistry-II
Paper Code: -NBP-302

External marks: 40

Total Credits: 01

Internal marks: 10

Total Marks: 50

- 1 Study of reaction of amino acids in Protein
- 2 Separation of amino acid mixture by paper Chromatography.
- 3 Estimation of Lactose in Milk.
- 4 Estimation of ascorbic acid content of food (Titrimetric method)

Note for practical examiner:-

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

7. Eric E. Conn ,Paul K. Stumpf: Outlines of biochemistry, John Wiley & sons.
8. Edward Stanton West, Wibert R. Todd:Text book of biochemistry, Oxford Publication .
9. Robert K. Murray & Daryl K.Granner: Harper' biochemistry ,Mc Graw Hill.
10. David T.Plummer Tata: An Introduction to practical biochemistry, Mc Graw Hill.
11. Keith Wilson & John Walker : Practical biochemistry – Principles & Techniques , Cambridge Edition.

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(6th semester)
Therapeutic Nutrition
 Paper code:-THN 302

External marks: 40
 Internal marks: 10

Total Credits: 03
 Total Marks: 50

Objectives:

- To develop understanding of various nutrients and their requirements for healthy living.
- To develop skills to improve nutritional quality of food.

UNIT-I

1. Principles of Diet Therapy
2. Functional foods –Antioxidants, Detoxifying Agents, Blocking/Suppressing Agents, Dietary Fibre, Prebiotics and Probiotics.

UNIT II

1. Modification of normal diet for therapeutic purposes; full diet, soft diet, fluid diet, bland diet, high protein diet, high fiber diet, low fiber diet, calorie restricted diet.

UNIT-III

1. Nutritional management in common ailments.
 - Diarrhoea
 - Constipation
 - Fevers- Typhoid, Tuberculosis

UNIT IV

1. Nutritional management in common ailments.
 - Diabetes
 - Hypertension
 - CHD
 - Peptic ulcer
 - Weight Management

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(6th semester)
Therapeutic Nutrition
Paper code:-THP -302

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Planning and Preparation of therapeutically modified diets
 - Full diet;
 - Soft diet

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- Bland diet
 - High protein diet
 - High fiber diet
 - Low fiber diet
 - Calorie restricted diet
2. Planning and Preparation of therapeutically modified diets in following disease Conditions
- Constipation
 - Diarrhoea
 - Fevers- Typhoid, Tuberculosis
 - Diabetes
 - Hypertension
 - CHD
 - Peptic ulcer
 - Obesity
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Note for practical examiner:-

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Krause.M.V.andMahan,L.K.(1986):FoodNutritionand DietTherapy;AlanR.Lissners Co. London.
2. Passmore.R and Davidson's.(1986):Human Nutrition and Dietitics , Livingstone Publishers.
3. Robinson,C.H.Lawler,M.R.Chenoweth,W.L.Garwisk,A.E.(1986) Normal and Therapeutic Nutrition, Macmillan Publishing House Co.
4. Willams,S.R.91989):Nutrition and Diet Therapy 4th edition,C.V.Mosby .Co.
5. Shils M.E.Olson J.A.Shike,M.ed.s.(1994) Modern Nutrition In Health and Disease 8th ed. Lea and Febiger –Awaerly Co.

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Syllabus of B.SC (HOME SCIENCE)
(6th semester)
Psychology
Paper code:-PSY- 302

External marks: 40
Internal marks: 10

Total Credits: 03
Total Marks: 50

Objectives:

- To understand the basis of human nature.
- To make the students understand the different aspects of human behaviour.

UNIT I

1. Introduction: Nature, scope and methods of psychology.
2. Biological basics of behavior
 - Nervous system
 - Endocrine system
 - Genes and behaviour

UNIT II

1. Sensation and Perception:
 - Vision and audition: Sensory loading of color pattern and loudness
 - Nature and determinants of attention

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- Perception: Definition, perceptual organization, space perception, role of experience in perception.
2. Learning:
- Role of motivation in learning
 - Theories of learning
 - Factors affecting learning

UNIT III

1. Intelligence:
- Definition and types
 - Measurement of intelligence
 - Theories of intelligence
2. Memory:
- Stages of memory,(encoding stage and retrieval)
 - Types of memory: sensory, STM, LTM
 - Causes of forgetting, improving memory.

UNIT IV

1. Motivation and emotion:
- Nature of motivation
 - Different types of motives
 - Theories of emotions, characteristics of emotions, physiological orrelates of emotion.
2. Personality:
- Definition, psycho-analytical theory of personality
 - Types, approaches to personality, traits approach to personality
 - Determinants of personality: biological factors, environmental factors.
 - Measurement of personality

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

References:

1. Broota,K.D.and Patri, 9V.R.(EDS)Foundation of Psychology. New Delhi: Wiley Eastern.
2. Morgan,C.T. Killing,R.T.Weisz,J.R.and SchoplerJ(1993). Introduction to psychology. New Delhi:TataMc Graw-Hill.
3. Minimum.E,W.KingB. in Psychology. and education. 3rd New York John Wiley.
4. Papalia D.R.and Olds. S.W.(1987)Psychology New York TataMc Graw-Hill

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5. Fieldman,R,S,(1990) Understanding Psychology TataMc Graw-Hill
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SYLLABUS OF B.SC (HOME SCIENCE)

(6th semester)

Dyeing, Printing and Finishing

Paper code: DPF-302

External marks: 40

Total Credits: 03

Internal marks: 10

Total Marks: 50

Objectives:

- To develop a complete awareness about dyeing and printing with respect to application and mode of action.
- To develop a complete awareness among students regarding different types of finishes.

UNIT-I

Dying:

1. Classification of different types of Dyes: - Indigenous and synthetic dyes;
2. Synthetic dyes: application and properties - direct, acid, basic, vat, naphthol, disperse, fibre reactive, pigment;
3. Selection of suitable dyes; dyeing methods: fibre, yarn and fabric;
4. Resist dyeing: tie and dye and batik

UNIT-II

Printing:

1. Printing styles: direct, mordant, resist and discharge;
2. Printing methods: hand , block, stencil, screen, roller, transfer, flock, duplex and resist printing
3. Common dyeing and printing defects, causes and preventive measures.

UNIT-III

Finishes:

1. Meaning, objectives and classification of application of finishes.

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2. Basics: Bleaching, Sizing and Dressing, Singing, Tenting, Belting, mercerizing and calendaring.

UNIT-IV

Finishes:

1. Texturing: Embossing, Moiring, Napping, Flocking, Acidic & basic finishes.
2. Functional: Antistatic, moth proofing, Flame retardant, Water repellent & water proofing, crease resistant, wash & wear and permanent press.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

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Practical
(6th semester)
Dyeing, Printing and Finishing
Paper code:-DPP-302

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Dyeing:

Preparation of samples of tie & dye following different tying methods

2. Printing

Preparation of samples according to different specification.(arrangement, Purpose, type of motive theme) using following techniques- Block printing stencil printing.

Note for practical examiner:-

The candidate has to attempt two questions from the entire syllabus (practical work) along with viva voce and class report.

References:

1. Shenai, V.A.(1997), History of textile design. Sevak Publication, Mumbai.
2. Waston and William, (1998), Textile design and colour, Bombay University, Publication, Mumbai.
3. Hess, K.P.(1959), Textile fibers and their use, Oxford and IBH Publication Co. New Delhi.
4. Grosicki Z.I. Wastson : Textile product: selection, use and care, Miffin company, London.
5. Shenai, V.A.(1991): Technology of printing, Sevak Publication, Mumbai.

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SYLLABUS OF B.SC (HOME SCIENCE)
(6th semester)

Household Equipment and Energy

Paper code:-HEE-302

External marks: 40

Internal marks: 10

Total Credits: 03

Total Marks: 50

Objectives:

- To understand the fundamentals of electricity.
- Electrical, non-electrical & motor driven equipments – their use, maintenance and care.
- Conventional, non-conventional & energy sources.

UNIT-I

1. Basic Manufacturing process: Classing of utensils, forming the utensils and assembling the utensils.
2. Non-electrical equipment and Electrical equipment: Heating appliances like Iron, Toasters, Ovens, Geysers and immersion rods-their use, care and maintenance.

UNIT-II

3. Motor Driven equipment: Food mixer/Processor, washing machine, Vacuum cleaner, refrigerator, Microwave, Dishwasher

UNIT-III

4. Fundamentals of electricity: Basics of electricity in the home, wiring, circuits and safety.
5. Energy sources: Conventional and non-conventional energy sources, their introduction and application.

UNIT-IV

6. Energy crisis, application of solar energy, energy solar equipments.
7. Low cost fuel saving technologies.

Note for the examiner

- The examiner will set 9 questions, including one objective type question covering the entire syllabus and 4 questions attempt from each unit.
- The candidate shall attempt 5 questions, selecting one question from each unit and question No. 1 is compulsory.
- All questions carry equal marks.

SYLLABUS OF B.SC (HOME SCIENCE)
(6th semester)

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Household Equipment and Energy
Paper code:-HEP-302

External marks: 40
Internal marks: 10

Total Credits: 01
Total Marks: 50

1. Identification of base materials, insulation material and finishes used in household equipment and market survey.
2. Use, care and maintenance of electrical and non-electrical equipment (mentioned in theory).
3. Conducting laboratory test for commonly used household equipment.
4. Fuse replacement and making electrical connections.
5. Demonstration on low cost solar household technologies.

Note for practical examiner:

The candidate has to attempt 2 questions from the entire syllabus (practical work) along with viva voce and class report

References:

1. Household equipment by Peet, L.J., Pickett. M.S.
2. Equipment in home – Ehrenkranz, F & Inman, L.L.
3. Varghese, M.A., Ogale, N.N. and Srinivasan, K 1997. Home Management, New Age International (P) Limited.
4. Dr Sharma K home management shiva prakashan Indore M P.