

Exam. Code : 108202

Subject Code : 2740

B.Sc. (Home Science) 2nd Semester

FAMILY AND SOCIAL WELFARE

Paper—I

Time Allowed—3 Hours]

[Maximum Marks—50

Note :—Attempt **FIVE** questions in all. Q. No. 1 is compulsory. Each question carries **10** marks.

1. (a) Types of marriage 4
(b) Difference between Nuclear and Joint Family 3
(c) What is Family Planning ? 3
2. What are the functions of family in an individual's life ?
Write any five characteristics of a family. 10
3. Write in detail the family planning methods and the care to be taken while using them. 10
4. What are the main features that separate Authoritarian and Permissive Parenting Techniques ? 10
5. Define Socialization. What is the role of Family in Socialization ? 10
6. How is social welfare distinguished from social work and social reform ? Give examples. 10
7. What are the main features of ICDS ? Write down the importance of this agency in the development of child welfare. 10
8. Explain in brief the current laws related to women and child welfare. 10

Exam. Code : 108202

Subject Code : 2741

B.Sc. (Home Science) 2nd Semester

**INTRODUCTION TO FAMILY RESOURCE
MANAGEMENT**

Paper-II

Time Allowed—3 Hours]

[Maximum Marks—60

Note :- Attempt **five** questions in all. Question No. **I** is compulsory. All questions carry equal marks.

I. Give answers in short :

- (a) Explain the difference between Needs and Wants.
- (b) What are human resources ?
- (c) Define decision making.
- (d) Enlist the steps of management process.
- (e) What are peak loads ?
- (f) Explain the concept of work simplification.

6×2=12

II. Define family resource management and discuss in detail its importance. 12

III. What are resources ? Discuss the characteristics of these resources. 12

- IV. What is decision making ? Explain the steps in the process of decision making. 12
- V. What do you understand by communication ? What is its role in the management process ? 12
- VI. "Time is an important resource. It should not be wasted or lost." Explain. 12
- VII. What are the reasons for fatigue in a home maker ? Discuss the different types of fatigue. 12
- VIII. Explain the general principles of work simplification. 12

Exam. Code : 108202

Subject Code : 2742

B.Sc. (Home Science) 2nd Semester

ADVANCED FOOD & NUTRITION

Paper-III

Time Allowed—3 Hours]

[Maximum Marks—60

Note :- Attempt **five** questions in all. Question No. 1 is compulsory. Each question carries (12) equal marks.

1. (i) What are fat soluble vitamins ?
- (ii) What is importance of preservation ?
- (iii) Write down functions of Folic acid in our body.
- (iv) What do you mean by food hygiene ?
- (v) Write down food sources and RDA of vitamin E and B3 for an adult man sedentary worker.
- (vi) What is food adulteration ? 2×6=12
2. Write down food sources, functions, bioavailability and deficiency symptoms of iron. 12
3. Explain food sources and functions of Vitamin A and C. 6,6

4. Write short notes on :
 - (a) Importance of water in nutrition and
 - (b) Importance of food preservation. 6,6
5. What are the causes of food spoilage ? Explain any two household methods of food preservation. 6,6
6. Write short notes on :
 - (a) Toxic effects of food adulteration.
 - (b) Food standards. 6,6
7. Write short note on Cooking and Serving methods with respect to food hygiene. 6,6
8. Write down functions and deficiency symptoms of Vitamin D and iodine. 6,6

Exam. Code : 108202

Subject Code : 2743

B.Sc. (Home Science) 2nd Semester

ELEMENTARY PHYSIOLOGY

Paper-IV

Time Allowed—3 Hours]

[Maximum Marks—50

Note :- Attempt **five** questions in all. Question No. 1 is compulsory. Each question carries equal marks.

1. (i) What is meaning of Rh factor ? What is its importance? 2
- (ii) Name different layers of skin. 2
- (iii) Write a note on menstrual cycle. 3
- (iv) What is difference between arteries and veins? 3
2. Explain structure and functions of a nephron. 10
3. Explain structure and functions of Lungs 10
4. Describe functions of Female reproductive system. 10
5. Discuss the location and function of any two endocrine glands in body. 5,5
6. Draw a labeled diagram of structure of heart. Write its functions. 7,3

7. Explain the structure of Digestive system with the help of a diagram. Briefly explain process of digestion of carbohydrates. 7,3
8. Explain the structure of a cell. What are its functions ? 7,3

Paper-IV

Time Allowed—3 Hours] [Maximum Marks—50
Note :- Attempt five questions in all. Question No. 1 is compulsory. Each question carries equal marks.

1. (i) What is meaning of Rf factor ? What is its importance? 2
(ii) Name different layers of skin. 2
(iii) Write a note on menstrual cycle. 3
(iv) What is difference between arteries and veins? 3
2. Explain structure and functions of a nephron. 10
3. Explain structure and functions of Lungs. 10
4. Describe functions of Female reproductive system. 10
5. Discuss the location and function of any two endocrine glands in body. 2,2
6. Draw a labeled diagram of structure of heart. Write its functions. 7,3

Exam. Code : 108202

Subject Code : 2744

B.Sc. (Home Science) 2nd Semester

APPLIED COMPUTER

Paper-V

Time Allowed—3 Hours]

[Maximum Marks—60

Note :— Attempt **five** questions in all, **first** question is compulsory. Each question carries **12** marks.

1. (i) How many rows and columns are there in a worksheet?
(ii) How can you use In-Built mathematical functions in Excel?
(iii) What is the function of Save As command ?
(iv) What is the extension of the saved workbook file?
(v) What is Primary Key? Give an example.
(vi) Define any two Search Engines. 6×2
2. Discuss the Advantages of MS-Excel. 12
3. (i) What types of information can be entered into a worksheet?
(ii) What are the various statistical functions used in the Worksheet? 2×6
4. Discuss the different data types and operators available in MS-Access. 12

5. (i) What you understand by the term relationship ? Write the procedure for building up a relationship between tables in MS-Access. 2×6
- (ii) Discuss the different components of MS-Access. 2×6
6. Explain about the search engines to search information on Internet. 12
7. (i) Explain about Multi-Media.
- (ii) What are the requirements for Internet connectivity? 2×6
8. Explain about :
- (i) FAX 2×6
- (ii) CD player.

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Exam. Code : 108202

Subject Code: 2745

B.Sc. (Home Science) 2nd Semester
COMMUNICATION SKILL IN ENGLISH

Paper—VI

Time Allowed—3 Hours] [Maximum Marks—35

Note :— All questions are compulsory. Each question carries
5 marks.

1. What do you understand by feedback ?
2. What are the psychological barriers to listening ?
3. Parents make the best teachers. Do you agree or disagree ? Give reasons for your answer.
4. Sanjeev is leaving for a holiday. His friend shows a concern to him; create a formal dialogue.
5. Vishal invites Ravi to accompany him to watch a cricket match; but Ravi expresses his inability to go. Create an informal dialogue.
6. Translate the following (do any **FIVE**) :—
job, live, higher, little, smile, travel.
7. Mark stress on the following words (do any **FIVE**) :—
letter, constantly, difficult, enjoy, television, trouble.

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Subject Code : 2746

B.Sc. (Home Science) 2nd Semester

ਪੰਜਾਬੀ ਲਾਜ਼ਮੀ

Paper-VII (i)

Time Allowed—3 Hours]

[Maximum Marks—50

ਨੋਟ :- ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਜ਼ਰੂਰੀ ਹਨ।

1. 'ਅੱਖਾਂ' ਨਿਬੰਧ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।

ਜਾਂ

'ਕੰਪਿਊਟਰ ਅਤੇ ਇੰਟਰਨੈੱਟ' ਨਿਬੰਧ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਬਿਆਨ ਕਰੋ। 10

2. 'ਉਜਾੜ' ਕਹਾਣੀ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ।

ਜਾਂ

'ਦਲਦਲ' ਕਹਾਣੀ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਬਿਆਨ ਕਰੋ। 10

3. ਸ਼ਬਦ-ਸ਼੍ਰੇਣੀਆਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਉ।

ਜਾਂ

ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਸ਼ਬਦ-ਰਚਨਾ ਦੇ ਮੁੱਢਲੇ ਸੰਕਲਪ ਅਤੇ ਸਿਧਾਂਤ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਉ। 10

4. ਹੇਠਾਂ ਲਿਖੇ ਪੈਰ੍ਹੇ ਨੂੰ ਪੜ੍ਹੋ ਅਤੇ ਪੁੱਛੇ ਗਏ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਦਿਉ :

ਜਿਸ ਸਰੀਰ ਨੇ ਕਦੇ ਖੇਚਲ, ਮਿਹਨਤ ਤੇ ਕਸ਼ਟ ਦਾ ਮੂੰਹ ਨਹੀਂ ਵੇਖਿਆ ਉਸ ਵਿੱਚ ਬਰਕਤ ਤੇ ਰੌਣਕ ਕਿਵੇਂ ਆ ਸਕਦੀ

ਹੈ ? ਜਿਸ ਦਰਖਤ ਨੂੰ ਨਾ ਫੁੱਲ ਹੈ, ਨਾ ਫਲ ਹੈ, ਨਾ ਉਸਦੀ ਠੰਡੀ ਛਾਂ ਹੈ, ਉਹ ਬਾਲਣ ਬਣਾ ਕੇ ਚੁਲ੍ਹੇ ਵਿੱਚ ਬਾਲ ਦਿੱਤਾ ਜਾਂਦਾ ਹੈ। ਮਨੁੱਖੀ ਸਰੀਰ ਕੰਮ ਲਈ ਬਣਿਆ ਹੈ। ਕੰਮ ਨਾ ਕਰਨਾ ਸਰੀਰ ਦੇ ਗੁਣ ਨੂੰ ਅਕਾਰਥ ਗੁਆਉਣਾ ਹੈ। ਕੰਮ ਹੀ ਸਰੀਰ ਨੂੰ ਅਰੋਗ ਰੱਖਦਾ ਹੈ। ਇੱਕ ਪਾਸੇ ਲੋਕ ਹੱਥੀਂ ਕੰਮ ਕਰਨ ਤੋਂ ਭੱਜਦੇ ਹਨ, ਫੇਰ ਸਰੀਰ ਨੂੰ ਠੀਕ ਰੱਖਣ ਲਈ ਕਸਰਤ ਕਰਦੇ ਹਨ। ਕਸਰਤ ਇੱਕ ਤਰ੍ਹਾਂ ਦਾ ਵਿਹਲੜਾਂ ਦਾ ਕੰਮ ਹੈ ਕਿਉਂਕਿ ਕੰਮ ਕਰਨ ਦੀ ਬਜਾਏ ਉਹ ਬਣਾਵਟੀ ਤਰੀਕੇ ਨਾਲ ਸਰੀਰ ਨੂੰ ਦਰੁਸਤ ਰੱਖਣ ਦਾ ਯਤਨ ਕਰਦੇ ਹਨ। ਸਰੀਰਕ ਕੰਮ ਹੀ ਅਸਲ ਵਿੱਚ ਸਾਡੇ ਸਾਰੇ ਅੰਗਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਕੁਦਰਤੀ ਹਿਲ-ਜੁਲ ਵਿੱਚ ਪਾ ਕੇ ਅਰੋਗ, ਸੁੰਦਰ ਤੇ ਸੁਡੌਲ ਰੱਖਦਾ ਹੈ।

(ੳ) ਕਿਹੜੇ ਸਰੀਰ ਵਿੱਚ ਬਰਕਤ ਤੇ ਰੌਣਕ ਨਹੀਂ ਹੁੰਦੀ ?

(ਅ) ਸਰੀਰ ਦੇ ਗੁਣ ਨੂੰ ਅਕਾਰਥ ਕਿਵੇਂ ਗੁਆਇਆ ਜਾਂਦਾ ਹੈ ?

(ੲ) ਮੁਸ਼ੱਕਤ ਨਾ ਕਰਨ ਵਾਲੇ ਦੇ ਸਰੀਰ 'ਤੇ ਕੀ ਪ੍ਰਭਾਵ ਪੈਂਦਾ ਹੈ ?

(ਸ) ਕਸਰਤ ਨੂੰ ਵਿਹਲੜਾਂ ਦਾ ਕੰਮ ਕਿਉਂ ਕਿਹਾ ਗਿਆ ਹੈ ?

(ਹ) ਸਰੀਰ ਦੇ ਸਾਰੇ ਅੰਗ ਅਰੋਗ, ਸੁੰਦਰ ਤੇ ਸੁਡੌਲ ਕਿਵੇਂ ਰੱਖੇ ਜਾ ਸਕਦੇ ਹਨ ? 5

5. ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਵਿੱਚੋਂ ਕਿਸੇ ਇੱਕ ਉੱਤੇ ਪੈਰਾ ਰਚਨਾ ਕਰੋ :

(ੳ) ਵਾਤਾਵਰਣ ਪ੍ਰਦੂਸ਼ਣ

(ਅ) ਮੌਬਾਇਲ ਅਤੇ ਇੰਟਰਨੈੱਟ ਦੇ ਫਾਇਦੇ ਅਤੇ ਨੁਕਸਾਨ

(ੲ) ਵਿਦਿਆਰਥੀ ਚੋਣਾਂ ਦੇ ਲਾਭ ਤੇ ਹਾਨੀਆਂ। 5

6. ਹੇਠ ਲਿਖੇ ਅਖਾਣਾਂ ਅਤੇ ਮੁਹਾਵਰਿਆਂ ਵਿੱਚੋਂ ਪੰਜ-ਪੰਜ ਨੂੰ ਵਾਕਾਂ ਵਿਚ ਵਰਤ ਕੇ ਅਰਥ ਸਪਸ਼ਟ ਕਰੋ :

ਅਖਾਣ : ਉਲਟੀ ਵਾੜ ਖੇਤ ਨੂੰ ਖਾਏ, ਅੱਗਾ ਦੌੜ ਪਿੱਛਾ ਚੌੜ, ਇਕ ਚੁੱਪ ਸੌ ਸੁੱਖ, ਸੱਦੀ ਨਾ ਬੁਲਾਈ ਮੈਂ ਲਾੜੇ ਦੀ ਤਾਈ, ਕੁੱਛੜ ਕੁੜੀ ਤੇ ਸ਼ਹਿਰ ਢੰਡੋਰਾ, ਖੇਤੀ ਖਸਮਾਂ ਸੇਤੀ, ਘਰ ਦਾ ਭੇਤੀ ਲੰਕਾ ਢਾਏ, ਪੁੱਟਿਆ ਪਹਾੜ ਤੇ ਨਿਕਲਿਆ ਚੂਹਾ।

ਮੁਹਾਵਰੇ : ਉਖਲੀ ਵਿਚ ਸਿਰ ਦੇਣਾ, ਆਪਣੀ ਪੀੜ੍ਹੀ ਹੇਠ ਸੋਟਾ ਫੇਰਨਾ, ਸਿਰ ਤੇ ਚੜ੍ਹਨਾ, ਕਿਨਾਰਾ ਕਰਨਾ, ਗਲਾ ਭਰ ਆਉਣਾ, ਝੋਲੀ ਚੁੱਕਣਾ, ਈਦ ਦਾ ਚੰਦ ਹੋਣਾ, ਚੰਨ ਚਾੜ੍ਹਨਾ। $5+5=10$

Exam. Code : 108202

Subject Code : 2747

B.Sc. (Home Science) 2nd Semester

MUDHLI PUNJABI

Paper—VII (ii)

Time Allowed—3 Hours]

[Maximum Marks—50

ਨੋਟ : ਸਾਰੇ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।

1. ਸੰਯੁਕਤ ਸ਼ਬਦ-ਬਣਤਰ ਵਾਲੇ ਵਾਕਾਂ ਦੀਆਂ ਕੋਈ ਪੰਜ ਉਦਾਹਰਣਾਂ ਦਿਉ। 5
2. ਦੋਹਰੇ ਸ਼ਬਦਾਂ ਦੀ ਵਰਤੋਂ ਕਰਦੇ ਹੋਏ ਕੋਈ ਪੰਜ ਉਦਾਹਰਣਾਂ ਲਿਖੋ। 5
3. 'ਪਰ' ਅਗੇਤਰ ਲਾ ਕੇ ਕੋਈ ਪੰਜ ਸ਼ਬਦ ਬਣਾਉ। 5
4. ਪੜਨਾਵਾਂ ਦੀ ਵਰਤੋਂ ਕਰਦੇ ਹੋਏ ਕੋਈ ਪੰਜ ਵਾਕ ਬਣਾਉ। 5
5. ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਪੰਜ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ ਲਿਖੋ। 5
6. ਭਾਸ਼ਾ ਦਾ ਸਾਡੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਕੀ ਮਹੱਤਵ ਹੈ ? 5
7. ਭਾਸ਼ਾ ਤੇ ਮਾਤ ਭਾਸ਼ਾ ਦੇ ਅੰਤਰ ਨੂੰ ਸਪਸ਼ਟ ਕਰੋ। 5
8. ਕੋਈ ਪੰਜ ਬਿਆਨੀਆਂ ਵਾਕ ਲਿਖੋ। 5
9. ਸਮਾਨ ਯੋਜਕ ਅਤੇ ਅਧੀਨ ਯੋਜਕ ਦੀ ਵਰਤੋਂ ਕਰਦੇ ਹੋਏ ਕੋਈ ਪੰਜ ਵਾਕ ਬਣਾਉ। 5
10. ਵਿਆਹ ਵਿੱਚ ਵਰਤੇ ਜਾਂਦੇ ਕੋਈ ਪੰਜ ਵਾਕ ਲਿਖੋ। 5

Exam. Code : 108202

Subject Code : 2748

B.Sc. (Home Science) 2nd Semester

**DRUG ABUSE : PROBLEM, MANAGEMENT AND
PREVENTION
Paper-VIII**

Time Allowed—3 Hours] [Maximum Marks—50

SECTION—I

Note :—(1) All questions carry equal marks.

(2) Attempt any **THREE** of the following.

1. What are amphetamines ?
2. What are the ways of dealing with withdrawal effects of drugs ?
3. Differentiate between organic and synthetic drugs.
4. What is the function of sedatives ?
5. Why young children are more prone to drug addiction ?

3×5=15

SECTION—II

Note :—(1) All questions carry equal marks.

(2) Attempt any **TWO** of the following.

1. How school can be an important agency of prevention of drug abuse ?
2. Write a note on Alcoholics Anonymous.
3. Discuss the loopholes in NDPS Act.
4. 'Family can play a positive role in preventing relapse of drug abuse'. Comment.
5. Write an explanatory note on de-addiction management in India. 2×10=20

SECTION—III

1. Discuss drug-crime connection with special reference to India.

OR

2. Explain physiological and psychological effects of drug addiction. 15

Exam. Code : 108204

Subject Code : 2769

B.Sc. (Home Science) 4th Semester

DEVELOPMENTAL STAGES TILL OLD AGE

Paper-I

Time Allowed—3 Hours] [Maximum Marks—50

Note :- Attempt any **five** questions. Question No. 1 is compulsory. Each question carries **10** marks.

1. Write short notes on any **five**. Each question carries 2 marks.
 - (i) Important secondary sex characteristics in boys.
 - (ii) Developmental tasks of adolescence.
 - (iii) Emotionality during adolescence
 - (iv) Common danger signals of adolescent maladjustment.
 - (v) Developmental tasks of late adulthood.
 - (vi) Role of school and teachers as counselor for adolescents.
2. "Young adulthood is the period of transition from carefree life to life full of responsibilities." Comment.

3. Throw light on various parenting techniques employed by the parents to discipline children. Which parenting technique is most acknowledged for the healthy development of the child's personality ?
4. Describe midlife changes in men and women. Suggest ways and means to cope up with these changes.
5. Discuss adjustments to changes in family life in old age including relationships with spouse, offspring and grandchildren.
6. Discuss some important conditions contributing to happiness in old age.
7. Discuss the concept of planned old age with special emphasis on preparation for retirement.
8. How great is mental decline in old age ? Discuss various mental changes in old age.

Exam. Code : 108204

Subject Code : 2771

B.Sc. (Home Science) 4th Semester

QUANTITY FOOD PRODUCTION & SERVICE

Paper—III

Time Allowed—3 Hours]

[Maximum Marks—60

Note :—(1) Attempt only **FIVE** questions (**12** marks for each question).

(2) Question No. **1** is compulsory.

1. Write short notes on :—
 - (a) Decoration of service area.
 - (b) Self Service.
 - (c) Assistant Service.
 - (d) Table Sizes.
 - (e) Portion size of recipe.
 - (f) Gross Profit ratio.
2. Define Hospitality industry in detail.
3. Define “quality of foods”. What are different aspects of quality ? Describe them in detail.
4. What are important features to be considered while planning Service Area ?

5. Describe some large quantity cooking techniques.
6. Describe in detail importance of personal hygiene of food handler.
7. How will you handle solid and liquid wastes ?
8. Describe different types of food production systems and production process in detail.

Note :— (1) Attempt only FIVE questions (12 marks for each question).
(2) Question No. 1 is compulsory.

1. Write short notes on :—
 - (a) Decoration of service area.
 - (b) Self Service.
 - (c) Assistant Service.
 - (d) Table Sizes.
 - (e) Portion size of recipe.
 - (f) Gross Profit ratio.
2. Define Hospitality industry in detail.
3. Define "quality of foods". What are different aspects of quality ? Describe them in detail.
4. What are important features to be considered while planning Service Area ?

Exam. Code : 108204

Subject Code : 2772

B.Sc. (Home Science) 4th Semester

**TRADITIONAL EMBROIDERIES, TEXTILES &
COSTUMES OF INDIA**

Paper—IV

Time Allowed—3 Hours] [Maximum Marks—60

Note :—(1) Attempt any **FIVE** questions.

(2) All questions carry equal marks.

- I. Discuss different types of 'Phulkari's. Explain the difference between a Phulkari and Bagh. 12
- II. Explain the fabric, colours, stitches, threads, themes and motifs used in Kantha. 12
- III. What are the peculiar features of Kasuti of Karnatka ? 12
- IV. Describe why the shawls of Kashmir are famous world over ? 12
- V. Draw a comparison between the Patolas, Ikat and Pochampalli. 12
- VI. Where and how is the 'Bandhani' work done ? 12
- VII. Differentiate between the costumes of women of Rajasthan and Gujarat. 12
- VIII. Explain in detail the costumes worn by men of Jammu & Kashmir. 12

Exam. Code : 108204

Subject Code : 2774

B.Sc. (Home Science) 4th Semester

APPLIED PHYSICS

Paper—VI

Time Allowed—3 Hours]

[Maximum Marks—30

Note :—Attempt **FIVE** questions only. Question No. 1 is compulsory.

1. (a) Differentiate between reflection and refraction of light.
(b) What is wave length range of x-rays and microwaves ?
(c) What is meant by dispersion of light ?
(d) Name S.I. Units of intensity of illumination.
(e) What is the use of Energy meter ?
(f) What is magnetic effect of electric current ?
 $1 \times 6 = 6$
2. (a) What is Thermo state ? What are its uses ? 3
(b) State the Snell's law of refraction and define absolute refractive index of a medium. What do you understand by the statement 'the refractive index of glass is 1.5 for white light ? 3
3. (a) What are the differences between CFL and incandescent lamps ? 2
(b) State various uses of electromagnetic radiations. 4

4. (a) What is meant by electric potential ? Differentiate between terminal potential difference and e.m.f. of source. 4
- (b) In an electric wiring switches are always connected with live wire, explain why ? 2
5. (a) What is heating effect of electric current ? State its advantages and disadvantages in household devices. 4
- (b) Explain the intensity levels of light in different parts of home. 2
6. What is function of a transformer in an a.c. circuit ? How do the input and output powers in a transformer compare ? Name the three kinds of energy losses that take place in the core of a transformer. How are they minimized ? 6
7. (a) Define the term electric current and state its S.I. unit. 2
- (b) State ohm's law. What are the necessary conditions for in conductor to obey ohm's law ? Describe an experiment with a neat labeled circuit diagram to verify ohm's law. 4
8. (a) What causes the twinkling of stars at night ? 2
- (b) During sunset and sunrise, the sun is seen even when it is slightly below the horizon. Explain the phenomenon responsible for it. 4

Exam. Code : 108204

Subject Code : 2775

B.Sc. (Home Science) 4th Semester

APPLIED CHEMISTRY

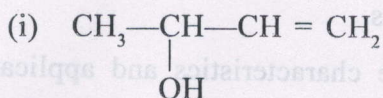
Paper—VII

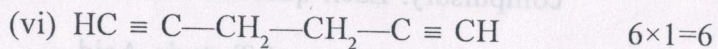
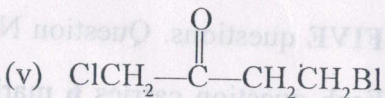
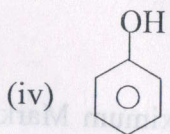
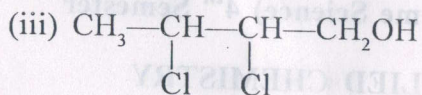
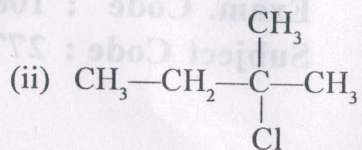
Time Allowed—Three Hours] [Maximum Marks—30

Note :—Attempt any **FIVE** questions. Question No. 1 is compulsory. Each question carries **6** marks.

1. (a) Write the structure of Tartaric Acid.
- (b) Write the advantages of gaseous fuel.
- (c) Write the formula of polyethene.
- (d) Write the full form of LAS detergents.
- (e) What are invert soaps ?
- (f) Write the use of Taflon. 6×1=6

2. Write the IUPAC names of the following :





3. Write the reaction and structure of following polymers :

- Bakelite
- Nylon 6, 6
- Polystyrene. $3 \times 2 = 6$

4. (a) Write the formula of sodium metabisulphite. For what purpose it is used in foods ?

(b) What do you mean by saponification ? $2 \times 3 = 6$

5. (a) What is CNG ? Mention its advantages over gaseous fuels.

(b) Describe the characteristics and application of kerosene. $2 \times 3 = 6$

6. What do you mean by cleansing agents ? Write the classification of synthetic detergents with examples.

6

7. Write a note on with their structure :

(a) Natural Rubber

(b) Vulcanized Rubber. $2 \times 3 = 6$

8. Write the difference between :

(a) Thermosetting and thermoplastics polymers

(b) Addition polymerisation and condensation polymerisation. $2 \times 3 = 6$

Exam. Code : 108206

Subject Code : 2798

B.Sc. (Home Science) 6th Semester

INTERIOR DECORATION

Paper-II

Time Allowed—3 Hours] [Maximum Marks—60

Note :— Attempt **five** questions. All questions carry equal marks. Question No. **I** is compulsory.

I. Write short notes on any **six**. Each carries **2** marks.

- (i) Direct light
- (ii) Awning window
- (iii) Sheer curtains
- (iv) Window rollers
- (v) Cascades
- (vi) Line flower arrangement
- (vii) Decorative accessories
- (viii) Window sill. 12

II. What are the characteristics of good home lighting ?
How can good lighting be effectively achieved in interiors ?
12

III. (i) Describe (diagrammatically) various parts of window.
(ii) Write a short note on decorative and false ceiling.
12

- IV. How many types of problematic windows one can encounter in daily life ? How can these be treated effectively ? 12
- V. What do you mean by window accessories ? Give brief account of curtain rods, rings and cords. 12
- VI. What is the importance of flower arrangement in interior decoration ? Explain step by step procedure to make a fresh flower arrangement. 12
- VII. (i) Write a short note on suitability of different types of flower arrangement for different areas with reasons.
(ii) Enlist picture types for a drawing room. 12
- VIII. Interior decoration is incomplete without accessories. Justify. How soft furnishings should be used to enhance the interiors ? 12

Exam. Code : 108206

Subject Code : 2799

B.Sc. (Home Science) 6th Semester

COMMUNITY NUTRITION

Paper-III

Time Allowed—3 Hours] [Maximum Marks—60

Note :- (1) Question No. 1 is compulsory.

(2) Attempt **five** questions in all (including the Compulsory Question).

(Compulsory Question)

1. (a) Define the following (any **eight**) :

(1) Food fads

(2) Supplementation

(3) Diet Surveys

(4) Growth Charts

(5) Infant Mortality

(6) Infection

(7) Pamphlets

(8) Anthropometry

(9) Flourosis.

1×8=8

(b) Complete the following abbreviations :

(1) SNP

(2) ICAR

(3) WHO

(4) CARE.

1×4=4

2. "Infection and Malnutrition are interrelated". Justify the statement. Explain the concept of Community and Nutritional Status. 6,6
3. Discuss any one major nutritional problem of India.
4. Differentiate between Infant Mortality and Maternal Mortality. Discuss the effect of malnutrition on defence mechanism. 6,6
5. Discuss the advantages and uses of anthropometric measurements. Explain in detail use of Growth Chart. 6,6
6. Write a detailed note on sprouting and fermentation. Describe in detail objectives and operation of Midday meal programme. 6,6
7. Discuss the role of any one National and International Agencies working in the field of community. 6,6
8. Write short notes on :
 - (1) Biochemical methods used in community and their standard ranges (any two)
 - (2) Dietary Surveys alongwith their advantages and disadvantages (any two). 6,6

Exam. Code : 108206

Subject Code : 2800

B.Sc. (Home Science) 6th Semester

GARMENT DESIGNING & CONSTRUCTION

Paper—IV

Time Allowed—3 Hours] [Maximum Marks—60

Note :— Attempt *five* questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on :
 - (1) Dart Intake
 - (2) Neutral Colours
 - (3) Harmony
 - (4) Silhouette
 - (5) Pivotal Point
 - (6) Grading. 2×6=12
2. What is the importance of elements of design in clothing ? Explain line and colour in clothing with examples. 12
3. What is anthropometry ? Discuss various points to be considered while taking body measurements. 12
4. What are the factors that affect the selection of clothing for elderly people ? 12

5. Discuss the importance of draping along with the procedure and equipment required. 12
6. What are the common fitting problems ? Explain the various methods used to correct them. 12
7. Elaborate the importance of labelling in the readymade garments. 12
8. 'Balance plays an important role in dress designing.' Explain with the help of illustrations. 12

Exam. Code : 108206
Subject Code : 2801

B.Sc. (Home Science) 6th Semester
COMMUNICATION AND AUDIO VISUALS IN
EXTENSION WORK

Paper — V

Time Allowed—3 Hours] [Maximum Marks—30

Note :— Attempt **five** questions in all. Question No.1 is compulsory. Each question carries **6** marks.

1. (a) What is power point presentation ? 2
- (b) Define programme planning. 2
- (c) Importance of feedback in communication. 2
2. Define communication. What are the main functions of communication in extension work ? 6
3. What are the important points to be kept in mind while selecting the teaching tools in communication ? 6
4. Write in detail about the layout and design of various audio visual aids to be used in extension work. 6
5. What is the importance of drama and talks in extending education ? 6
6. How does selection of subject matter while planning a programme improves efficiency in communication ? 6
7. What are the elements that are to be kept in mind while programme planning ? 6
8. Classify Audio Visual aids in brief. 6

C.No 3 18/5 (GUC)

Exam. Code : 108206

Subject Code : 2802

B.Sc. (Home Science) 6th Semester

APPLIED NUTRITIONAL BIOCHEMISTRY

Paper-VI

Time Allowed—3 Hours]

[Maximum Marks—30

Note :— Attempt FIVE questions in all. Q. No. I is compulsory. All questions carry equal marks.

- I. (a) Explain Hydrolytic Breakdown of protein.
(b) What is specific Dynamic Action of Foods ?
(c) Give the abnormal constituents of Urine. $2 \times 3 = 6$
- II. Discuss Nitrogen Balance. 6
- III. Explain Urea Cycle. 6
- IV. Which factors affect B.M.R. ? 6
- V. Classify and define enzymes. 6
- VI. Give the composition of urine. 6
- VII. Write a note on electrolyte balance and electrolyte losses. 6
- VIII. Write notes on any **one** :
- (a) General reaction of amino acid metabolism
(b) Factors affecting enzyme activity
(c) Essential amino acid
(d) Dehydration. 6

Exam. Code : 108206

Subject Code : 2803

B.Sc. (Home Science) 6th Semester

APPLIED ZOOLOGY AND FOOD MICROBIOLOGY

Paper-VII

Time Allowed—3 Hours] [Maximum Marks—60

Note :- Question number 1 is compulsory. Attempt **five** questions in all (including the compulsory question).

(Compulsory Question)

1. Write any two characteristics of the following (any **four**) :

(1) Louse

(2) Earthworm

(3) Rice weevil

(4) Virus

(5) Yeast

(6) Contaminated egg

(7) Spoiled Canned foods

(8) Spoiled vegetables.

4×3=12

2. Describe the harmful effects on health caused by mosquito culex. Discuss the control of Rice Weevil. 6,6

3. Discuss the economic importance of honeybee. 12
4. Differentiate between microbiology and morphology.
Describe the characteristic features of Bacteria. 6,6
5. Discuss the sources of contamination of cereals, also
discuss their methods of prevention and control. 12
6. Differentiate between food spoilage and food contamination
by giving suitable examples. Discuss the sources of
contamination of milk. 6,6
7. Write short notes on (Any **three**)
 - (1) Nitrogen Cycle
 - (2) Control of Food Poisoning
 - (3) Food standards and Safety
 - (4) Sources of food contamination.
 - (5) Economic Importance of moulds. $4 \times 3 = 12$
8. Discuss the application of microorganism in food industry. 12