

S-1328

Sub. Code

23MHF1C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2025

First Semester

Home Science

ADVANCED FOOD SCIENCE

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What are Colloids?
2. Write any two physical properties of solutions.
3. How is gluten formed.
4. Give the structure of amylose and amylopectin.
5. What are Protein concentrates. Give examples
6. Classify enzymes.
7. What are fats and oils. Give examples?
8. What is rancidity and oxidation in fats and oils.
9. Write on non-enzymatic browning?
10. What are food additives quote example.

Part B

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Explain about the factors that affect the stability of emulsions and foams.

Or

- (b) Discuss about the different methods used to modify food starches.

12. (a) Write briefly on gelation and retrogradation.

Or

- (b) Discuss the action of heat on milk proteins.

13. (a) Detail on the properties of egg proteins.

Or

- (b) Demonstrate crystal formation and the factors affecting crystallization of sugar.

14. (a) Discuss the factors affecting foam formation.

Or

- (b) Categorize the types of milk products.

15. (a) Explain the role of colors and flavours in food products.

Or

- (b) Write in detail about properties of sweeteners.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail about Gel, sols, emulsion and foam.
 17. Illustrate and explain the classification of proteins.
 18. Explain the rancidity and its type. How rancidity can be prevented in the fats and oils?
 19. Explain the composition and properties of milk.
 20. Discuss about any five types of food additives in detail.
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S-1329

Sub. Code

23MHF1C2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2025

First Semester

Home Science

ADVANCED HUMAN PHYSIOLOGY

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write any two functions of stem cells.
2. What are the three principal units of cell structure?
3. What is Rh factor?
4. What are white blood cells and its composition.
5. Define Dalton's law of partial pressure.
6. Brief on lung volumes.
7. Mention the different types of immunity.
8. Define Spermatogenesis.
9. Write the important functions of gastro intestinal tract.
10. What is electroencephalogram (EEG)?

Part B

(5 × 5 = 25)

Answer **all** questions choosing either (a) or (b).

11. (a) Discuss about “Cell theory”.

Or

- (b) Write a brief note on the functions of cell.

12. (a) Write on composition of blood.

Or

- (b) Illustrate the structure of heart and mention its parts.

13. (a) Differentiate between innate and acquired immunity.

Or

- (b) Highlight about Boyle-Mariotte’s law of volume and pressure.

14. (a) Narrate the mechanism of digestion and absorption of carbohydrates.

Or

- (b) Explain the role of hormones in Lactation.

15. (a) Enumerate the difference between sympathetic nervous system and para sympathetic nervous system.

Or

- (b) Draw the structure of Nephron and explain its function.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Illustrate the structure of tissue with its parts and highlight the important functions of tissue.
 17. Describe the Mechanism involved in Blood coagulation.
 18. Discuss the Mechanism of respiration and diffusion of gases.
 19. Explain the Menstrual cycle and menopause in detail.
 20. Describe the mechanism of urine formation and the role of kidney in blood pressure regulation.
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S-1330

Sub. Code

23MHF1E1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2025.

First Semester

Home Science

**Elective — FAMILY RESOURCE MANAGEMENT —
CONCEPT AND CONTEXT**

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write the causes for value change.
2. Define conventional standards.
3. What do you meant by decision making?
4. Give the universal characteristics of resources.
5. What do you meant by work curves?
6. What is money income?
7. Give the meaning of work simplification.
8. Mention the steps to avoid fatigue.
9. Give the functions of consumer market.
10. Write the problems faced by the consumers.

Part B

(5 × 5 = 25)

Answer **all** questions. Choosing either (a) or (b).

11. (a) Enumerate the concept of standards and how standards are measured in a family.

Or

- (b) Assess why managerial functions are important in a family.

12. (a) Distinguish human and non-human resources with suitable examples.

Or

- (b) Discuss how resources could be used at the maximum for effective family living.

13. (a) Describe in detail the need for proper money management in a family with examples.

Or

- (b) Comment on how the available time could be utilized to the maximum by an employed homemaker of a family?

14. (a) Elaborate the principles of body mechanics with suitable illustration.

Or

- (b) With neat diagram describe the functional designs of kitchen and other related storage areas.

15. (a) Analyze the principles of law of diminishing marginal utility.

Or

- (b) Explain the status of consumer in our country.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Critically analyze the important factors influencing goals set in families.
 17. Write a detailed note on the steps involved in the process of management.
 18. Elaborate the different tools in time management and the feasibility of its application in daily living.
 19. Explain the scope of ergonomics and the role of ergonomics in workplace design in relation to its components.
 20. Discuss the initiatives taken by the government and NGO's in protecting consumers.
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S-1332

Sub. Code

23MHF1E3

M.Sc. DEGREE EXAMINATION, NOVEMBER 2025.

First Semester

Home Science

Elective — PERCEPTIVES OF HOME SCIENCE

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. Define Extension Education.
2. Write the meaning of Social Change.
3. Give the meaning for development.
4. Define rehabilitation.
5. What is synthetic Fiber and give an example?
6. What are textile Fibers?
7. What do you mean by Home management?
8. Define Conflict.
9. What is Balanced diet?
10. What are micro nutrient? Name them.

Part B

(5 × 5 = 25)

Answer **all** the questions. Choosing either (a) or (b).

11. (a) Enumerate the objectives of Extension Education.

Or

- (b) Brief on the characteristics of Extension Education.

12. (a) List out the characteristics of Early childhood.

Or

- (b) Elucidate the objectives of Early childhood education.

13. (a) Explain the primary properties of textile fibres.

Or

- (b) Clarify on regenerated Fibers with examples.

14. (a) Elucidate the meaning of Energy Management.

Or

- (b) Brief on the key elements of Interior design.

15. (a) Point out the objectives of diet therapy.

Or

- (b) Write a short note on non-communicable disorders.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the various qualities of an Extension worker.
 17. Describe on the various stages of human growth and development.
 18. Assess the effectiveness of different conflict resolution methods with examples.
 19. Critically evaluate the advantages and disadvantages of natural and synthetic fibres in terms of durability, comfort, and environmental impact. Support your answer with examples.
 20. Analyse the variations in dietary allowances across different age groups and evaluate their impact on growth, development, and overall health.
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S-1343

Sub. Code

23MHF3C2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2025

Third Semester

Home Science

TRENDS AND ISSUES IN HUMAN DEVELOPMENT

(CBCS – 2023 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define: Conception.
2. Recall the symptoms of pregnancy.
3. Define Growth and development.
4. Mention the immunization prescribed during infancy.
5. Suggest few games for early childhood which influence the motor development of the child.
6. Write the importance of parenting in early childhood.
7. State the cause of thumb sucking in children.
8. Mention the role of siblings in the habit formation during late childhood.
9. Define: Preschool education.
10. What do you mean by gifted children?

Part B

(5 × 5 = 25)

Answer **all** the questions, choosing either (a) or (b).

11. (a) Describe the different stages of pregnancy.

Or

- (b) Explain the process of birth in normal delivery.

12. (a) Briefly explain principles of growth and development.

Or

- (b) Discuss the nature and nurture issues during infancy.

13. (a) Give a brief note on motor development of early childhood.

Or

- (b) Analyse the importance of parental care during early childhood.

14. (a) Briefly explain the emotional development in late childhood.

Or

- (b) Describe the factors influencing the academic achievements during late childhood.

15. (a) Discuss the advantages of audio visual aids in preschool education.

Or

- (b) Write short note on the role of significance of preschool education in visually and mentally impaired children.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Describe the prenatal influence in the outcome of pregnancy.
 17. Give an insight into physical, motor and emotional growth in infant.
 18. Analyse the common prevalent diseases during early childhood.
 19. Examine the common behaviour problems and habit formation in late childhood.
 20. Give an outline on the importance and types of preschool education.
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