

F-3034**Sub. Code****7MHF2C1**

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
SUPPLEMENTARY / IMPROVEMENT / ARREAR EXAMINATIONS
Second Semester**

Home Science

ADVANCED DIETETICS

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is meant by celiac disease?
2. Mention the four foods to be included in hepatitis.
3. Write short note on gout.
4. Give the complications of diabetes mellitus.
5. What is renal calculi?
6. List four causes for acute renal failure.
7. Briefly explain sodium restricted diet.
8. What is hyper cholesterolemia?
9. List out causatives leading to cancer.
10. List any four nutraceuticals rich foods for cancer.

Part B**(5 × 5 = 25)**Answer **all** questions, choosing either (a) or (b).

11. (a) Discuss the principles of diet therapy.

Or

- (b) Explain the dietary care for diarrhoea.

12. (a) Enumerate the types of diabetes mellitus.

Or

- (b) Write the causes and symptoms of gout.

13. (a) List the predisposing factors and symptoms of acute glomerulo nephritis.

Or

- (b) Give the types of renal calculi.

14. (a) Explain the conditions of congestive cardiac failure.

Or

- (b) List the risk factors and symptoms of hypertension.

15. (a) Mention the types of cancer.

Or

- (b) List the clinical symptoms of cancer.

Part C**(3 × 10 = 30)**Answer any **three** questions.

16. Explain peptic ulcer with reference to
- (a) etiology
- (b) dietary modification.

17. Discuss 'obesity', highlighting
 - (a) Grades of obesity
 - (b) Complication and
 - (c) dietary care and support.
 18. Enumerate the types of dialysis and explain diet modification in dialysis.
 19. Write any essay on "atherosclerosis".
 20. Discuss the special feeding methods used in prevention of cancer.
-

F-3035**Sub. Code****7MHF2C2**

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
SUPPLEMENTARY / IMPROVEMENT / ARREAR EXAMINATIONS
Second Semester**

Home Science

DIET IN METABOLIC DISEASES

(CBCS – 2017 onwards)

Time : Three Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is paleo diet?
2. Define hypo and hyper thyrodism.
3. What is meant by carbohydrate counting?
4. List the types of lipo protein.
5. Define the term atherosclerosis.
6. Give four functional foods suitable for cancer.
7. Write short notes on microalbuminuria.
8. Give the types of renal calculi.
9. List the symptoms of hepatitis.
10. Briefly explain maple syrup disease.

Part B**(5 × 5 = 25)**

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

11. (a) Write short notes on total energy requirement.

Or

- (b) Explain briefly on weight im balance, highlighting unintentional weight loss.

12. (a) Discuss briefly food exchange system.

Or

- (b) Explain glycemic index and glycemic load.

13. (a) Enumerate the risk factors and prevention of hypertension using DASH diet.

Or

- (b) Explain medical nutritional therapy for cancer.

14. (a) Discuss nephrotic syndrome.

Or

- (b) How do you prevent the occurrence of renal calculi.

15. (a) Write short notes on hepatic coma.

Or

- (b) Discuss “Glycogen storage disease”.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the hormones that control hunger and fat storage.
 17. Discuss nutritional recommendations for management of diabetes.
 18. Discuss the role of nutraceuticals in prevention of cancer.
 19. Explain the prevention and recent advances in the medical nutritional management of renal disorders, in general.
 20. Explain the nutritional support required in cirrhosis and bring out the relationship between alcohol and cirrhosis.
-

F-3036**Sub. Code****7MHF2C3**

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
SUPPLEMENTARY / IMPROVEMENT / ARREAR EXAMINATIONS
Second Semester**

Home science

FAMILY RESOURCE MANAGEMENT

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define management?
2. Mention the types of goal.
3. List any four characteristics of resources.
4. What is 'Evaluation' in management?
5. Differentiate money income and psychic income.
6. Mention the needs for savings in a family.
7. Give the causes of fatigue.
8. Write the scope of ergonomics.
9. Write the principle of equimarginal utility.
10. List any four functions of consumer market.

Part B**(5 × 5 = 25)**

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

11. (a) Enlist the managerial function of families.

Or

- (b) Explain the different types of standards.

12. (a) Suggest guidelines for the use of resources.

Or

- (b) How will you classify resources?

13. (a) Explain the process of managing time.

Or

- (b) Explain the following terms

(i) Work unit

(ii) Time norm.

14. (a) Define fatigue and explain its types.

Or

- (b) Write short note on 'Body Mechanics'

15. (a) Give the classifications of human wants.

Or

- (b) Explain how price is determined in the market.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Write a detailed note on meaning, sources, origin, characteristics and factors influencing values.
 17. Elaborate on steps in decision making with suitable examples.
 18. Define family budget and explain the steps in planning a family budget.
 19. What is work simplification? Explain the Mundel's classes of changes in household activities.
 20. Write an essay on consumer rights and responsibilities.
-

F-3037**Sub. Code****7MHF2E1**

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
SUPPLEMENTARY / IMPROVEMENT / ARREAR EXAMINATIONS
Second Semester**

Home science

Elective : FOOD PROCESSING & PACKAGING

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is food preservation?
2. What do you mean by roasting?
3. Define dehydrofreecing.
4. What is reverse osmosis?
5. Define the teem fibrillation.
6. List the types of papers.
7. Write about TFS?
8. What do you mean by biodegradable plastics?
9. What is rigid packaging?
10. List any 4 packaging material used for dairy products.

Part B**(5 × 5 = 25)**Answer **all** questions, choosing either (a) or (b).

11. (a) Write a note on roasting and frying.

Or

- (b) Explain about extrusion technology.

12. (a) Write a brief note on cold storage methods.

Or

- (b) Enumerate on processing and preservation by dehydration.

13. (a) Explain the function of packaging

Or

- (b) Write a note on vacuum packaging

14. (a) Discuss about the types of closures.

Or

- (b) Write about aluminium containers.

15. (a) Explain about food packaging system

Or

- (b) Elaborate the difference between semirigid and rigid packaging.

Part C**(3 × 10 = 30)**Answer any **three** questions.

16. What is pasteurization? Explain the types of pasteurization.

17. Write a detailed note on types of dryers.

18. Write an essay on glass as an important packaging material.
 19. Explain the various methods of bottle making.
 20. Write in detail about the various packaging materials used for packing meat, poultry and sea foods.
-

F-4677

Sub. Code

7MHF4C1

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
Supplementary/Improvement/Arrear Examinations**

Fourth Semester

Home Science

INSTITUTIONAL FOOD SERVICE MANAGEMENT

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is motel.
2. What is contract catering?
3. Define menu planning.
4. What is buffet service?
5. List the types of decision.
6. Write any two methods of resolving conflict.
7. What is food cost?
8. List any two methods of following safety in work place.
9. What is pest control?
10. List the types of accidents.

Part B

(5 × 5 = 25)

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

11. (a) Write a note on outdoor catering.

Or

- (b) Write the history of catering industry.

12. (a) How will you plan a service area, Explain.

Or

- (b) Write short note on left over management.

13. (a) Describe the types of resources.

Or

- (b) List the various factors that affect the use of resources.

14. (a) Write the uses of computer for the control of stock.

Or

- (b) What is a budget, How it can be planned.

15. (a) Write a note on food hygiene.

Or

- (b) List various types of garbage disposal methods.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Write a note on cafeteria, motel and hotel.
17. Explain on standardization of recipes and portion control.
18. Explain concept and types of decisions and write the steps in decision making.
19. Describe the various factors affecting cost control.
20. Explain the following
 - (a) Personal hygiene
 - (b) Sanitation in kitchen.

F-4678

Sub. Code

7MHF4C2

**M.Sc DEGREE EXAMINATION, APRIL 2021 &
Supplementary/Improvement/Arrear Examinations**

Fourth Semester

Home Science

HOME SCIENCE EXTENSION EDUCATION

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write shortly on philosophy behind extension education.
2. Give the meaning of home science extension.
3. What is administrative set up for rural development?
4. Give any two functions of extension worker.
5. Define communication.
6. List any four audio visual aids.
7. Define programme planning.
8. List any three evaluation criteria.
9. Expand the following:
 - (a) RETC
 - (b) NYK
10. What is community organisation?

Part B

(5 × 5 = 25)

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

11. (a) Enumerate on extension education in national development.

Or

- (b) Brief on the objectives of home science extension education.

12. (a) Discuss on administrative setup at block level.

Or

- (b) Explain the factors to be considered while training women extension worker.

13. (a) Detail on the approaches of extension.

Or

- (b) Explain on satellite communication.

14. (a) Discuss the principles of programme planning.

Or

- (b) Enumerate the importance of extension.

15. (a) Explain on the principles of community development programme.

Or

- (b) Write briefly on any two socioeconomic programme.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Detail on the principles of extension education.
 17. Enumerate on the role of women extension workers for welfare of the community.
 18. Write in detail on methods of extension education.
 19. Outline the analysis of concept.
 20. Discuss on state level extension training institution in a detailed manner.
-

F-5122

Sub. Code

7MHF1C2

M.Sc. DEGREE EXAMINATION, APRIL 2021 &

Supplementary/Improvement/Arrear Examinations

First Semester

Home Science

ADVANCED NUTRITION

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Mention the meaning of specific dynamic action of foods.
2. What is meant by energy imbalance?
3. Define Gluco neogenesis.
4. What is Resistant Starch?
5. Briefly explain lactose intolerance.
6. Give ICMR-RDA for protein for pregnant and lactating women.
7. Write short notes on Tran's fatty acid.
8. List the essential fatty acids.
9. What is Polar environment?
10. Write a note on space mission.

Part B

(5 × 5 = 25)

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

11. (a) Explain the major components of energy requirements.

Or

- (b) Discuss Physiological fuel value of foods.

12. (a) Enumerate the functions of carbohydrates.

Or

- (b) Explain Glycemic Index and Glycemic food.

13. (a) List the hormones involved in controlling protein metabolism.

Or

- (b) How do you improve the quality of protein in the diet?

14. (a) Explain mode of fat transport and storage in the body.

Or

- (b) Classify lipo protein and list its importance.

15. (a) Give the criteria to be considered in planning nutrient requirements in high altitude.

Or

- (b) Discuss briefly nutritional requirements in polar environment.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. What is BMR? List the factors influencing BMR of the body.
 17. Discuss the metabolic utilization and functions of carbohydrates.
 18. Explain the methods used to evaluate protein quality of the diet.
 19. Write an essay on role of Essential fatty acids in human nutrition.
 20. Briefly explain nutritional requirements in special conditions.
-

F-5123

Sub. Code

7MHF1C3

**M. Sc. DEGREE EXAMINATION, APRIL 2021 &
Supplementary/Improvement/Arrear Examinations**

First Semester

Home Science

APPLIED PHYSIOLOGY

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. What is muscle fatigue?
2. Mention the proportion of body fluids in intra and extracellular compartments.
3. List the symptoms of hyperthyroidism.
4. What is infertility?
5. Give the composition of inspired air.
6. Give the composition of saliva.
7. Write any two functions of plasma proteins.
8. List the main components of blood.
9. What are monoclonal antibodies?
10. Give the properties of an antigen.

Part B

(5 × 5 = 25)

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

11. (a) What is membrane potential? Explain.

Or

- (b) Explain about homeostasis.

12. (a) Write a note on the functions of pancreas.

Or

- (b) Explain the hypo and hyper functioning of thyroid gland.

13. (a) Brief out on exchange of gas taking place in alvoli

Or

- (b) Explain about the structure and functions of oesophagus.

14. (a) Enumerate on the functions of blood.

Or

- (b) What are plasma proteins? Give their functions.

15. (a) What is autoimmune disorder? Explain.

Or

- (b) Draw a labelled sketch of brain mark the parts and mention the functions of brain.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail on the energetics and mechanism of muscle contraction.
17. Explain about oxygen dissociation curve.

18. Brief out on the normal and abnormal constituents of urine.
 19. Elaborate on the developmental stages of a foetus.
 20. Draw the structure of eye explain it and add a note on physiology of vision.
-

F-5475

Sub. Code

7MHF2E2

**M.Sc. DEGREE EXAMINATION, APRIL 2021 &
Supplementary/Improvement/Arrear Examinations**

Second Semester

Home Science

Elective–HUMAN DEVELOPMENT

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. State the periods of Prenatal development.
2. What is meant by “Ante – natal period”?
3. Define “Development”.
4. What is “Maturation”.
5. Why is early childhood period called the most critical stage?
6. Define “Early Childhood Education”.
7. What is meant by “Behaviour problem”?
8. Define “Habit”.
9. Who are said to be gifted children?
10. Classify Visual Impairment.

Part B

(5 × 5 = 25)

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

11. (a) Enumerate the types of birth.

Or

- (b) Illustrate the structure of ovum.

12. (a) Trace the physical and motor development of a child in the first two years.

Or

- (b) Chart down the immunization schedule and state its importance.

13. (a) Chalk out the developmental tasks to be accomplished during early childhood period.

Or

- (b) Enlist the importance of play.

14. (a) Elicit the major needs of children.

Or

- (b) Identify the factors influencing academic achievement during late childhood period.

15. (a) State the objectives of early childhood education.

Or

- (b) Mention the characteristics of a good preschool teacher.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. List the stages of prenatal development. Explain each in detail.
17. Enunciate the principle governing the growth and development of a human being.
18. Trace the intellectual development of a child during infancy and early childhood as proposed by Jean Piaget.
19. Enlist any Four common behaviour problems. Discuss the do's and dont's in the parenting process of those behavoiurs.
20. Present a blueprint of a preschool, considering the requisites of a preschool setup.
