F–2031

Sub. Code
7MHF1C1

M.Sc. DEGREE EXAMINATION, APRIL 2019

First Semester

Home Science

ADVANCED FOOD SCIENCE

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** the questions.

1. Why millets are more important for our health?
2. List any two properties of gluten.
3. Name any two toxins present in pulses and legumes.
4. What is pectin? Give the foods rich pectin.
5. How eggs act as emulsifying agent?
6. What is rigor mortis?
7. How non enzymatic browing reaction take place in food?
8. List any two ways to select the fresh fish.
9. How rancidity occur in oils and fats?
10. What is shortening of fat?

Part B (5 × 5 = 25)

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

11. (a) Write a short note on principles of starch cookery.

Or

(b) Give the properties of good dough.

12. (a) How will you reduce the toxic substances in pulses and legumes?

Or

(b) What is germination? List out the benefits of germination.

13. (a) Suggest best methods to cook fruits and vegetables– Justify.

Or

(b) Draw and explain the structure of eggs.

14. (a) Write a short note on classes and grades of meat cuts.

Or

(b) How cheese are prepared in large scale?

15. (a) Write a short note on non fermented milk product.

Or

(b) Give the composition and nutritive value of eggs.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Give a brief note on types of bread, its preparation and properties.

17. Explain on the different types of pigments present in fruits and vegetables.

18. Discuss on the changes of meat during cooking and rigor mortis.

19. Describe the composition and nutritive value of milk.

20. Enumerate on the enzymatic browing reaction and suggest any five ways to prevent it.

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F–2034

Sub. Code
7MHF1C4

M.Sc. DEGREE EXAMINATION, APRIL 2019

First Semester

Home Science

TEXTILES AND CLOTHING

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Classify textile fibres.
2. Give the advantages of natural fibres.
3. Define spinning.
4. List the parts of a loom.
5. What is singeing?
6. What do you mean by textile finishing?
7. Explain laundry.
8. Write a note on embroidery of Kashmir.
9. Define dyes.
10. How is blood stain removed for fabrics?

Part B (5 × 5 = 25)

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

11. (a) What are acrylic fibres? Explain the production method.

Or

(b) Explain the origin of wool, and cotton.

12. (a) What are manmade and novelty yarns?

Or

(b) Discuss about fancy weaves.

13. (a) Give an account on the preparatory process for dyeing.

Or

(b) What are the factors considered while finishing textiles?

14. (a) Classify dyes. Explain the synthetic dyes.

Or

(b) Write various techniques followed for tie and dye.

15. (a) Give an account on Wadrobe planning and budgeting.

Or

(b) Elaborate on the embroidery of Lucknow.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Enumerate the production , properties and application of nylon and orlon fibres.

17. Discuss on nonwoven techniques.

18. How is textile dyed with natural dyes? Give its advantages and disadvantages.

19. Elaborate on traditional textiles of India.

20. Explain in detail the different methods of printing.

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F–2036

Sub. Code
7MHF2C1

M.Sc. DEGREE EXAMINATION, APRIL 2019

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. Write a note on pancreatitis.
3. What is metabolic disorder?
4. Mention four foods to be avoided in gout.
5. Write a short note on acute glomerulonephritis.
6. Briefly explain Renal calculi.
7. Define hyperlipidemia.
8. List the types of hypertension.
9. Give the side effect of chemotherapy for cancer patients.
10. What is meant by Total parenteral nutrition?

Part B (5 × 5 = 25)

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

11. (a) Explain ulcerative colitis, in a detailed manner.

Or

(b) How do you modify normal diet into therapeutic diet?

12. (a) Discuss the metabolic changes occurring in diabetes mellitus.

Or

(b) Explain the nature and occurrence of uric acid crystals.

13. (a) Enumerate dietary management of acute renal failure.

Or

(b) Explain nephrosis in detail.

14. (a) Write a note on acute diseases of heart.

Or

(b) Discuss 'DASH' diet.

15. (a) List the causes of cancer and suggest any five functional foods suitable for cancer.

Or

(b) Briefly explain 'Tube feeding'.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Discuss etiology, clinical findings and dietary modification for peptic ulcer.

17. How do you plan a diet suitable for an obese adult man and underweight adolescent girl?

18. List the predisposing factors, clinical findings and dietary management of hypertension.

19. Explain the types of dialysis and modification of diet in dialysis.

20. Discuss cancer, with reference to (a) causes, (b) clinical symptoms and (c) dietary modification.

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F–2037

Sub. Code
7MHF2C2

M.Sc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Home Science

DIET IN METABOLIC DISEASES

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Expand BMI and BMR.
2. Write short notes on low Carb-high fat diet.
3. Briefly explain insulin carbohydrate ratio.
4. What is meant by glycemic load and index?
5. List the types of lipo proteins.
6. Define carcinogenesis.
7. What is meant by glomerular filtration rate?
8. Briefly explain renal stones.
9. List four prime functions of liver.
10. Mention two pancreatic disorders.

Part B (5 × 5 = 25)

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

11. (a) Write short notes on unintentional weight loss.

Or

(b) Briefly explain ketogenic diet.

12. (a) Explain abnormal metabolism in uncontrolled diabetes.

Or

(b) Write a note on food exchange system.

13. (a) Briefly explain the terms lipoproteins and hyperlipidemia.

Or

(b) Write the interrelationship between nutrition and carcinogenesis.

14. (a) Discuss the term microalbuminuria.

Or

(b) How do you present nephrotic syndromes?

15. (a) List the types of jaundice.

Or

(b) Enumerate the causes for hepatic coma.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Discuss the hormones that control hunger and fat storage in the human body.

17. Explain the nutritional recommendation for management of diabetes.

18. Enumerate the role of functional foods and nutraceuticals in prevention of cancer.

19. Write an essay on recent advances in the medical nutritional management of renal disorders.

20. Explain passiophysiology and nutritional management of cirrhosis.

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F–2038

Sub. Code
7MHF2C3

M.Sc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Home Science

FAMILY RESOURCE MANAGEMENT

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** the questions.

1. Define – Standards.
2. Give the definition of Management.
3. Classify – The Resources.
4. List out the factors affecting the use of resources.
5. List out the characteristics of time.
6. What is meant by savings?
7. Define – work simplification.
8. What is meant by ergonomics?
9. List out the role of NGO towards consumer protection.
10. Define consumerism.

Part B (5 × 5 = 25)

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

11. (a) Discuss about the goals.

Or

(b) Classify the standards with suitable examples.

12. (a) Write a note on 'Resources'.

Or

(b) List out the various guidelines for the use of resources.

13. (a) What are the tools used for time management? Discuss.

Or

(b) Discuss about the 'Budget'.

14. (a) Draw and Discuss the workstation for computer uses with proper measurement.

Or

(b) Write a note on ergonomics of work environment.

15. (a) Discuss the functions of Consumer.

Or

(b) Write an account on Consumerism.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Discuss about the qualities of good manager in house management.

17. Draw and discuss the management process.

18. Elaborately discuss about the methods of Savings.

19. Write in detail the Mundel's law of changes in work simplification.

20. Discuss in detail the law of diminishing marginal utility with examples.

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F–2039

Sub. Code
7MHF2E1

M.Sc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Home Science

Elective : FOOD PROCESSING AND PACKAGING

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Define food processing.
2. What do you mean by blanching?
3. List the types of dryers.
4. What is refrigeration?
5. Expand MAP and CAP.
6. Define packaging.
7. List the types of closures.
8. What are the edible films?
9. What is flexible packaging?
10. List any four packaging material used for dehydrated food.

Part B (5 × 5 = 25)

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

11. (a) Explain the principles of food processing and preservation.

Or

(b) Write note on microwave heating.

12. (a) Explain about the process of ultrafiltration.

Or

(b) Give an account on freezing.

13. (a) Write in brief about MAP and CAP.

Or

(b) Brief about the requirements of a very good packaging material.

14. (a) Discuss about the bio–degradable plastics.

Or

(b) Explain about tinning process.

15. (a) Write note on frozen food packaging.

Or

(b) Explain about the packaging materials used for dairy products.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain the steps involved in canning in detail.

17. Explain in detail about the various cold storage methods.

18. Write about the types of papers and their testing methods.

19. Enumerate the various aspects of plastic of a packaging material.

20. Write in detail about different forms of packaging.

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F–2040

Sub. Code
7MHF2E2

M.Sc. DEGREE EXAMINATION, APRIL 2019

Second Semester

Home Science

Elective — HUMAN DEVELOPMENT

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

Define:

1. Conception.
2. Ante-natal care.
3. Growth.
4. Development.
5. Developmental task.
6. Toy age.
7. Behaviour problems.
8. Habit.
9. Hearing impairment.
10. Mental retardation.

Part B (5 × 5 = 25)

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

11. (a) Illustrate the beginning of life.

Or

(b) Elicit the signs and symptoms of pregnancy.

12. (a) Enumerate the advantages of breast feeding over bottle feeding.

Or

(b) Elicit the factors influencing growth and development.

13. (a) Brief up the play behaviour of children during their early years.

Or

(b) What are the causes and preventive or curative strategies for any of the two deficiency diseases.

14. (a) How can you provide a positive schooling atmosphere for children?

Or

(b) Explain the principles underlying habit formation.

15. (a) How are challenged children classified in general?

Or

(b) Enlist atleast ten most important equipments (Indoor and outdoor) needed for a preschool.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. List the three stages of prenatal development. Explain it.

17. Explain the principles, underlying the process of Growth and development.

18. Trace the development in the intellectual domain from infancy to late childhood.

19. Tabulate the causes, do's and dont's of any of the five behaviour problems.

20. Elicit the objectives of preschool education.

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F–2041

Sub. Code
7MHF3C1

M.Sc. DEGREE EXAMINATION, APRIL 2019

Third Semester

Home Science

RESEARCH METHODOLOGY AND STATISTICS

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What are the objectives of research?
2. Define research.
3. List out the four scales of measurement.
4. Define sampling.
5. List the types of data.
6. Define secondary data.
7. What are the types of hypothesis?
8. What is 'Chi square test'?
9. What is a Report?
10. List any two international funding agencies.

Part B (5 × 5 = 25)

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

11. (a) Explain the criteria of a good research.

Or

(b) What is the significance of good research?

12. (a) Explain the various types of sampling.

Or

(b) What is a measurement scale?

13. (a) Write a note on questionnaire method.

Or

(b) Describe the types of data collection.

14. (a) What is analysis of data? Explain.

Or

(b) Write short notes on "Correlation".

15. (a) Write the techniques of interpretation of data.

Or

(b) Describe on 'proposal writing' for research.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain any three types of research.

17. Describe various sampling techniques.

18. Explain an different methods of data collection.

19. Explain on ‘measures of central tendency’.

20. Describe the steps in writing a research report.

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F–2043

Sub. Code
7MHF3C3

M.Sc. DEGREE EXAMINATION, APRIL 2019

Third Semester

Home Science

FOOD SAFETY AND QUALITY CONTROL

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. List any two factors affecting food safety.
2. What is food safety?
3. What is GHP?
4. Define TQM.
5. What is FSSAI?
6. What is HALAL?
7. Define additives.
8. What are adulterants?
9. List the four duties of food inspector.
10. What should be qualification for public analyst?

Part B (5 × 5 = 25)

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

11. (a) Explain on food safety and its safety concerns.

Or

(b) Describe the current challenges to food safety.

12. (a) Write short notes on concepts of food quality.

Or

(b) Explain the functions of quality control.

13. (a) Explain on essential commodities Act.

Or

(b) Write short notes on codex India.

14. (a) Describe the types of additives.

Or

(b) Write short notes on food adulterants.

15. (a) List the qualification and duties of food inspector.

Or

(b) Explain the role of central food laboratory in determining food quality indices.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Explain in detail on toxicants in Animal food and plant food.

17. Explain the meaning, concepts, need and components of quality control.

18. Write short notes on AGMARK, BIS and FSSAI.

19. Describe the different methods of evaluation of food adulterants.

20. Explain the role of central and state government in imparting quality control.

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F–2044

Sub. Code
7MHF3E1

M.Sc. DEGREE EXAMINATION, APRIL 2019

Third Semester

Home Science

Elective : DIABETES CARE AND EDUCATION

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Give two specific types of diabetes mellitus.
2. What is meant by Glycemic Index?
3. Mention four hormones influence blood glucose level in diabetes.
4. Name two non calorie sweetners.
5. List the major pathological changes in metabolism of diabetes.
6. Give the vulnerable group of population at risk of diabetic nephropathy.
7. What is Insulin shock?
8. Mention the reason for not having sensation in feet wound healing.
9. Write short note on Food exchange lists.
10. What is meant by glycosylated haemoglobin?

Part B (5 × 5 = 25)

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

11. (a) List five factors influence the glycemic load and Index.

Or

(b) Discuss the diabetic dietary guidelines.

12. (a) How do you monitor blood glucose level?

Or

(b) Discuss GTT.

13. (a) Discuss Diabetic keto acidosis and give the complications due to hyper glycemia.

Or

(b) Explain Oral hypoglycemic drugs in controling diabetic emergencies.

14. (a) How do you prevent the burden of neuropathy?

Or

(b) Discuss diabetes and alcoholism.

15. (a) Explain the role of physical activities in controlling blood glucose level.

Or

(b) Explain the consequences of nephropathy.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Differentiate between Type 1 and Type 2 diabetes mellitus and give suitable diabetic diet for Type 1 and Type 2 Diabetes.

17. Discuss the principles of planning a diabetic diet and write the importance of food exchange lists in planning diabetic diet.

18. Explain the following aspects

    (a) gestational diabetes

    (b) diabetes and physical activities

    (c) Insulin

19. Differentiate between hyperglycemia and hypoglycemia and list the complications of these two conditions.

20. "You should control diabetes, otherwise it will control you" – Justify the statement.

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F–2045

Sub. Code
7MHF3E2

M.Sc. DEGREE EXAMINATION, APRIL 2019

Third Semester

Home Science

Elective: GUIDANCE AND COUNSELLING

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. Define Counseling.
2. What is educational guidance?
3. Mention any two characteristics of a counselor.
4. Define client centered counseling.
5. What is individual counseling?
6. State any two importance of premarital counseling.
7. What is substance abuse?
8. State any four personal problems of adolescents.
9. Define motivation.
10. What is decision - making?

Part B (5 × 5 = 25)

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

11. (a) Explain the relationship between guidance and counseling.

Or

(b) Elicit the needs and advantages of group guidance.

12. (a) Bring out the ethical issues of counseling.

Or

(b) Enumerate the skills and competencies required for an effective counseling.

13. (a) Explain Carl Roger's approach of counseling.

Or

(b) Describe the process of individual counseling. State its importance .

14. (a) How can a school counselor address the issues of academic achievement?

Or

(b) What is parental counseling? Why is it important.

15. (a) Explain any two physical and two mental methods of relaxation.

Or

(b) Suggest remedies for procrastination.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Enumerate the scope, principles and goals of counseling.

17. Elaborate the process of counseling.

18. State the nature of client-centered and counselor-centered counseling with relevant situations.

19. Elicit the role of a school counselor.

20. Provide suggestive activities towards

    (a) Managing motivation

    (b) Developing self-confidence

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F–2046

Sub. Code
7MHF4C1

M.Sc. DEGREE EXAMINATION, APRIL 2019

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 a motel?
2. What do you mean by industrial catering.
3. What is snack bar?
4. What do you mean by work simplification?
5. List the types of decisions.
6. Define the term value.
7. What do you mean by vending machines?
8. What is food hygiene?
9. Define garbage.
10. List the types of accidents.

Part B (5 × 5 = 25)

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

11. (a) Write in brief about the history of catering industry.

Or

(b) Give an account on Air catering.

12. (a) What is menu planning and give a note on types of menu?

Or

(b) Give an account on management of leftover food.

13. (a) Explain the classification of resource management.

Or

(b) Explain about the methods of resolving.

14. (a) Write in detail about types of cost control.

Or

(b) Give an account on book keeping.

15. (a) Write a note on pest control.

Or

(b) Give an account on sanitation of kitchen with its importance.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Write an essay on transport catering.

17. Explain standardisation of recipe in detail.

18. Give a detailed account on the steps in decision making.

19. Bring out the role of computer for the control of stocks.

20. Explain the causes and types of accidents.

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