

F-8555

Sub. Code

7MHF1C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

First Semester

Home Science

ADVANCED FOOD SCIENCE

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Briefly explain aleurone cell layer of cereals.
2. What is dextrination?
3. Write short notes on texturized vegetable protein.
4. Discuss shortly on nutritive value of roots and tubers.
5. List the type of fats present in egg yolk.
6. Write shorts on organ meat.
7. Give the nutritional importance of whey protein.
8. What is gelatin?
9. Define hydrogenation of fats.
10. Give the types of sugar.

Part B

(5 × 5 = 25)

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

11. (a) List the factors affecting gelatinization.

Or

- (b) Mention the different types of wheat flour used in cake preparation.

12. (a) Write short notes on pigments present in fruits and vegetables with example.

Or

- (b) Explain the role of pectin in jam and jelly preparation.

13. (a) Draw and explain the structure of egg.

Or

- (b) Discuss the methods of cooking of tough cuts of meat.

14. (a) Explain four milk products available in the market.

Or

- (b) Give the tests used for the determination of rancidity.

15. (a) Mention any two preparation of milk based beverages.

Or

- (b) Classify and list the health benefits of beverages.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss preparation of gluten and list the factors affecting gluten formation.
17. How do you enhance cooking quality of pulses?
18. List the water soluble pigments. Explain the effect of cooking carrot and beet root in acid alkaline and in high cooking temperature.
19. Discuss the points to be remembered while cooking tender and tough cuts of meat and fish.
20. Explain beverages with reference to
 - (a) First based beverages and
 - (b) Malted beverages.

F-8556

Sub. Code

7MHF1C2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

First Semester

Home Science

ADVANCED NUTRITION

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Briefly explain the term gross fuel value.
2. In which four conditions energy requirement is increased?
3. Give the nutritional classification of starch.
4. What is glycemic index of foods?
5. List four essential amino acids.
6. Write short notes on PDCAAS.
7. Briefly explain the chemical composition of lipids.
8. What is meant by brown adipose tissue?
9. What is meant by space mission?
10. Explain briefly about polar environment.

Part B

(5 × 5 = 25)

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

11. (a) Give the relationship between oxygen required and calorific value.

Or

- (b) Give the ICMR-RDA for energy for pregnant and lactating woman.

12. (a) Discuss the role of hormones in maintaining normal blood sugar level.

Or

- (b) Classify dietary fibre and give examples.

13. (a) List four factors affecting protein requirement.

Or

- (b) Discuss complementary value of proteins with suitable examples.

14. (a) Differentiate the characteristics of Omega-6 and Omega-3 fatty acids.

Or

- (b) Write short notes on (i) Ketone bodies and (ii) Isoprenoids.

15. (a) Discuss the factors to be considered in planning diet for high altitude.

Or

- (b) Discuss space nutritional management.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the steps involved in calculating total energy requirement by factorial method.
 17. Describe the clinical effects of dietary fibre in chronic diseases.
 18. Explain the term 'protein quality' and discuss four methods used to assess the protein quality.
 19. Discuss the functions and deficiency symptoms of EFA.
 20. Enumerate nutritional requirements for the special conditions with reference to hot environment.
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F-8558

Sub. Code

7MHF1C4

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

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. Enlist the secondary properties of cotton fiber.
2. Define recycled wool.
3. What do you mean Z-twist?
4. What is slab yarn?
5. What is reed?
6. List the methods of dyeing?
7. What is singeing?
8. Mention the types of Laundries.
9. What is care label?
10. Write the principles of vat dyeing.

Part B

(5 × 5 = 25)

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

11. (a) Write short notes on manmade fibers.

Or

- (b) Explain the physical and chemical properties of viscose rayon.

12. (a) Give a note on the ply yarns and its uses.

Or

- (b) Describe the secondary weaving operations.

13. (a) Explain the classification of synthetic dyes.

Or

- (b) Brief on silk degumming.

14. (a) What are the laundries procedure for silks and synthetics?

Or

- (b) Explain the importance of care labels.

15. (a) Distinguish between dyes and printing.

Or

- (b) Explain in detail about stencil printing.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Classify natural fibers with examples.

17. Write a detailed note on basic weaves.

18. Explain in detail about any two special finishes.
 19. Elaborate on dry-cleaning process in laundering.
 20. Discuss in detail about roller printing techniques.
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F-8559

Sub. Code

7MHF2C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

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 therapeutic nutrition?
2. Briefly explain hepatitis.
3. Give WHO classification of diabetes mellitus.
4. List the factors for the occurrence of obesity.
5. Write the short notes on gout.
6. Give the meaning of acute glomerulo nephritis.
7. Define hyper cholesterolemia.
8. How do you present renal calculi?
9. Define thrombosis and nephrosis.
10. Mention four foods causes cancer.

Part B

(5 × 5 = 25)

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

11. (a) Discuss the current concepts in dietary modification for prevention of peptic ulcer.

Or

- (b) Briefly explain cholelithiasis.

12. (a) Bring out the relationship between alcohol and cirrhosis of liver.

Or

- (b) List the metabolic changes in fever.

13. (a) Discuss the role of fats in the formation of atherosclerosis.

Or

- (b) Give the reasons to restrict sodium in prevention of hypertension.

14. (a) What is urinary calculi? List four foods to be included and four foods to be excused in renal calculi.

Or

- (b) Write short notes on dialysis.

15. (a) “Phyto chemicals as anticancer agents” – Justify.

Or

- (b) Discuss the risk factors of cancer.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain diet modifications for peptic ulcer and list their clinical features.
 17. Discuss the mode of treatment of diabetes mellitus and give suitable explains.
 18. Write an essay on Renal failure and explain acute and chronic renal features.
 19. Enumerate the role of functional foods in prevention of atherosclerosis.
 20. Discuss the nutritional requirements for cancer adult patients.
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F-8560

Sub. Code

7MHF2E2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

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. Define implantation.
2. Mention the three major types of birth.
3. Define growth.
4. Define 'developmental tasks'.
5. List any four types of communicable diseases.
6. State the major types of parenting approaches.
7. Define habit.
8. What is meant by behaviour problems?
9. Who is said to be visually impaired?
10. Define preschool education.

Part B

(5 × 5 = 25)

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

11. (a) Enumerate the signs and symptoms of pregnancy.
- Or
- (b) Elicit the stages of birth.
12. (a) Differentiate the concept of growth and development with suitable example.
- Or
- (b) Trace the physical development of infants.
13. (a) Elicit the development tasks of early childhood.
- Or
- (b) Explain any two deficiency diseases pertaining to the causes, symptoms, nutrient sources and treatment.
14. (a) Elaborate on the psychological needs of the children.
- Or
- (b) Explain any two methods of getting rid of an unwanted habit.
15. (a) State the significance of preschool education.
- Or
- (b) Enunciate the importance of audio-visual aids in early learning.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the three stages of prenatal development.
17. Elicit the principles underlying the process of growth and development of a human being.

18. Trace the changes in physical, motor, emotional and social development of an infant through early childhood period.
19. Discuss the do's and dont's of any five behaviour problems.
20. Explain the causes, types, remedial measures and treatment for the following handicappedness.
 - (a) Mental retardation
 - (b) Hearing impaired.

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7MHF3C1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

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. Define Research.
2. List any four types of research.
3. What is ordinal scale?
4. Define sampling.
5. What is secondary data?
6. What is the difference between questionnaire and interview schedule?
7. Define hypothesis.
8. List any two characteristics of hypothesis.
9. What are the types of Report?
10. Define report.

Part B

(5 × 5 = 25)

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

11. (a) Write the objectives of research.

Or

- (b) Enlist the Criteria of good research.

12. (a) Describe the steps involved in research process.

Or

- (b) Explain any one method of research design.

13. (a) What are the points to be considered while constructing a questionnaire?

Or

- (b) Write a short note on observation method of data collection.

14. (a) Explain any one of the types of hypothesis.

Or

- (b) Where Chi square test can be used? Explain.

15. (a) Describe the layout of the research report.

Or

- (b) What are the points to be considered while writing a report?

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Enumerate the problems faced by researchers in India.
 17. Explain the various types of sampling design.
 18. Explain the various methods of data collection.
 19. Describe on testing of hypothesis.
 20. What are the points to be considered while writing a proposal for funding agencies?
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F-8562

Sub. Code

7MHF3C2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Home Science

COMMUNITY NUTRITION

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. List the basic four factors to be considered for RDA.
2. Define the term balanced diet.
3. What is meant by Nutritional assessment?
4. Mention the major micro nutrient deficiencies existing in the community.
5. Give three complications of obesity.
6. Name two functional tests used for assessing nutritional status.
7. Expand VAD, IDA and IDD.
8. Write short notes on dietary guidelines.
9. Name two national programs to combat malnutrition.
10. Mention two major nutritional contribution of WHO.

Part B

(5 × 5 = 25)

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

11. (a) Explain the factors to be considered for suggesting RDA for different ages.

Or

- (b) Discuss the basic principles of meal planning.

12. (a) List the objectives of assessing nutritional status.

Or

- (b) Explain three samples used for biochemical estimation.

13. (a) Discuss the importance of good national nutrition.

Or

- (b) List the nutritional causes of IDA.

14. (a) Write short notes on national nutrition policy.

Or

- (b) Give the functions of FAO.

15. (a) Mention the needs of nutrition education to promote the health status of community.

Or

- (b) Explain e-media used in nutrition Education.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the inter relationship between food, nutrition and health.
17. Explain five dietary methods used to assess the nutritional status of the community.

18. Enumerate etiology and measures to overcome malnutrition in the community.
 19. Discuss Midday Meal Programme with reference to
 - (a) objectives
 - (b) beneficiaries and
 - (c) plan of action.
 20. Enumerate the various A.V tools methods used in nutrition education.
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F-8563

Sub. Code

7MHF3C3

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

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. What do you mean by safe food?
2. What is environmental toxin?
3. Define TQM.
4. List any four concepts of food quality.
5. What is Consumer Protection Act?
6. List any four functions of FSSAI.
7. Give any four food quality indices for milk and its products.
8. Classify food additives with example.
9. Brief on central food laboratories.
10. What is the required qualifications to become a food inspector?

Part B

(5 × 5 = 25)

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

11. (a) Discuss the types of packaging materials.

Or

- (b) Give an account on the importance of food safety.

12. (a) Explain about stages of quality control in food industry.

Or

- (b) Describe on the guidelines for application of HACCP.

13. (a) Give an account on Consumer Protection Act and Commodities Act.

Or

- (b) Highlight the functions of ISO 22000.

14. (a) Describe on the food quality indices of pulses and oil seeds.

Or

- (b) Detail on food additives.

15. (a) Discuss the role of Central Government in food quality control.

Or

- (b) Enumerate on the essential qualification and duties of Public analyst.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Enumerate on the current challenges to food safety.
 17. Explain about quality control.
 18. Give detail account on FSSAI.
 19. Discuss on food adulteration in detailed manner.
 20. Describe on food laboratories in quality control.
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F-8564

Sub. Code

7MHF3E1

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022.

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. What is glycemic index?
2. List any four causes of diabetes mellitus.
3. What is meant by diabetic neuropathy?
4. List the investigations to diagnosis of monitor diabetes mellitus.
5. What is lactic acidosis?
6. Define hyperglycemia.
7. What do you mean by acute MI?
8. Define ESRD.
9. Give any four consequences of diabetic neuropathy.
10. How will you diagnose diabetic neuropathic foot ulceration?

Part B

(5 × 5 = 25)

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

11. (a) Discuss on diabetic food pyramid.

Or

- (b) Enumerate on the modifiable risk factors of diabetes mellitus.

12. (a) Give an account on the consequences of changes in the metabolism in diabetes mellitus.

Or

- (b) Discuss on pathological changes in cardiovascular system in diabetics.

13. (a) Highlight the long term complications of diabetes mellitus.

Or

- (b) Enumerate on the management of diabetic retinopathy.

14. (a) Give an account on the prevalence of diabetic nephropathy.

Or

- (b) Explain about ESRD.

15. (a) Differentiate between peripheral and autonomic neuropathy.

Or

- (b) Discuss on the complications of diabetic neuropathy.

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Highlight on the prevalence of diabetes mellitus.
17. Enumerate on the diagnosis and routine monitoring of diabetes mellitus.
18. Explain on the diabetic retinopathy under the following heads : (3+3+4)
 - (a) Classification
 - (b) Feature
 - (c) Diagnosis and control of blood glucose
19. Detail on the prevention of CVD in diabetes.
20. Write about the following:
 - (a) Diagnosis and screening of diabetic neuropathy.
 - (b) Glycemic management in diabetic neuropathy.

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Sub. Code

7MHF3E2

M.Sc. DEGREE EXAMINATION, NOVEMBER 2022

Third Semester

Home Science

Elective : GUIDANCE AND COUNSELLING

(CBCS – 2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** the questions.

1. State the objectives of personal guidance.
2. Define counselling.
3. List the uses of anecdotal record in counselling.
4. Mention the stages of non-directive counselling.
5. Enlist any four situations that lend for group counselling.
6. Define motivation.
7. Differentiate between Self-concept and self-esteem.
8. What is meant by substance abuse?
9. Define Rational-emotive approach of counselling.
10. Define procrastination.

Part B

(5 × 5 = 25)

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

11. (a) Elicit the relationship between guidance and counselling.

Or

- (b) Enumerate the main functions of educational guidance.

12. (a) Discuss the skills and competencies needed for a counsellor.

Or

- (b) How can the audio-visual aids be used in educational guidance?

13. (a) State the assumptions of directive counselling.

Or

- (b) What is effective counselling? Provide tips for becoming effective counsellors.

14. (a) State the assumption of Carl Roger's approach to counselling.

Or

- (b) State the need and areas of marital counselling.

15. (a) Put forth the tips needed for adolescents towards time management.

Or

- (b) How would you improve your communication skill?

Part C

(3 × 10 = 30)

Answer any **three** questions.

16. Indicate the need and importance of vocational guidance. Enumerate its principles.
17. Describe the role, functions, qualification and training of a counsellor.
18. Describe the procedure of counsellor-centered counselling. Enumerate its assumptions and limitations.
19. Elicit the assumptions of psycho-analytic approach of counselling. Explain the process.
20. As a counsellor, suggest training tips for an adolescent to improve his
 - (a) Assertiveness
 - (b) Problem-solving ability.