

**F-0699**

**Sub. Code**

**7MHF1C3**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**First Semester**

**Home Science**

**APPLIED PHYSIOLOGY**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Define applied physiology.
2. List any four factors that affects excitability and contractability of muscles.
3. Define amen.
4. Give any two functions of parathyroid hormone.
5. What do you mean by haemoglobin affinity?
6. What is circadian rhythm?
7. List any four constituents of blood.
8. Define myeloid tissue.
9. Define antibody.
10. Give any four functions of spinal cord.

**Part B**

(5 × 5 = 25)

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

11. (a) Describe on the chemical composition of muscle.

Or

- (b) Discuss on the factors affecting the activity of smooth muscle.

12. (a) Enumerate on the physiology and functions of thyroid gland.

Or

- (b) Give a brief account on menstrual cycle.

13. (a) Explain about the transport of oxygen.

Or

- (b) Discuss the mechanism of secretion of gastric juice.

14. (a) Describe about the plasma proteins.

Or

- (b) Detail on urine formation.

15. (a) Highlight on antigen-antibody interaction.

Or

- (b) Draw the structure of neuron and explain.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Detail on the mechanism and energetics of muscle contraction.
  17. Outline the sexual and asexual reproduction.
  18. Give an account on the factors affecting food intake.
  19. Explain about cardiovascular mechanism and homeostasis.
  20. Enumerate on the physiology of special senses.
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**F-0700**

**Sub. Code**

**7MHF1C4**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**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. Differentiate between natural fibers and synthetic fibers.
2. Write any four properties of silk.
3. Define twist.
4. What is Non-Woven knitting?
5. Define wet processing.
6. What is mercerizing?
7. List the types of detergent.
8. What is the difference between fabric and textiles?
9. Define block printing.
10. Write any two principles of stain removal.

**Part B**

(5 × 5 = 25)

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

11. (a) Discuss the unique properties and origin of cotton.  
Or  
(b) Explain on the properties of Dacron and Orton.
12. (a) Classify the yarns.  
Or  
(b) Write about classification of knitting.
13. (a) Discuss the finishes suitable for natural and manmade fibers.  
Or  
(b) Outline the techniques involved in singeing.
14. (a) Why traditional textiles are considered as heritage of India?  
Or  
(b) Explain any five embroidery of India.
15. (a) Explain on the methods of dyeing.  
Or  
(b) Describe the techniques in stain removal.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Classify the textile fibers.
17. Give the different motions of weaving.
18. What is sanforiger? Give its importance and technique.
19. Discuss on detail on the methods of washing.
20. Detail on the methods of printing.

**F-0701**

**Sub. Code**

**7MHF2C1**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**Second Semester**

**Home Science**

**ADVANCED DIETETICS**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. List the purposes of diet therapy.
2. Write short notes on bleeding ulcer.
3. Give the types of diabetes mellitus.
4. Mention the metabolic changes in diabetes.
5. Enumerate four predisposing factors for renal disease.
6. Write the types of dialysis.
7. What is hyperlipidemia?
8. Briefly explain atheroma.
9. Give the symptoms of stomach cancer.
10. Mention the problems related to radio therapy used in the treatment of cancer.

**Part B**

(5 × 5 = 25)

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

11. (a) Write short notes on ulcerative colitis.

Or

- (b) Give the principles of diet therapy.

12. (a) Enumerate the tests used in diagnosis of diabetes mellitus.

Or

- (b) Discuss diet modification for under weight pre school child.

13. (a) List the causes of acute renal failure.

Or

- (b) Explain the dietary management of Renal calculi.

14. (a) Enumerate the uncontrollable causative factors responsible for CVD.

Or

- (b) Write the types of lipoprotein.

15. (a) Mention five major causes of cancer.

Or

- (b) Briefly explain the special feeding used for oral cancer.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Discuss the clinical symptoms and diet modification for peptic ulcer.
  17. Explain the complications and diet modification for diabetes mellitus.
  18. Enumerate the predisposing factors for the occurrence of atherosclerosis.
  19. Write an essay on “Renal failure” in detail.
  20. Discuss the role of diet modification in prevention of cancer in adult man.
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**F-0702**

**Sub. Code**

**7MHF2C2**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**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. What is meant by unintentional weight loss?
2. List four hormones that control hunger.
3. What is diabetic diet?
4. Briefly explain glycemic index.
5. Give the types of lipoprotein.
6. Define the term carcinogenesis.
7. What is GFR?
8. Briefly explain Haemodialysis.
9. Give four functions of Liver.
10. Write a note on Jaundice.

**Part B**

(5 × 5 = 25)

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

11. (a) Explain the body composition with reference to its major components.

Or

- (b) Write nutritional modification for an overweight adolescent girls.

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

Or

- (b) Write short note on Food Exchange List.

13. (a) Enumerate the risk factors for CVD.

Or

- (b) Classify cancer, in a detailed manner.

14. (a) Plan a days menu for a preschool boy suffering from glomerulonephritis.

Or

- (b) List the causes of Acute Renal Failure.

15. (a) Give short notes on gout.

Or

- (b) Briefly explain “Parkinson’s disease”.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the role of complex carbohydrate in promotion of health and prevention of diseases.

17. Discuss ‘Acute Renal Failure’ in detail.

18. Enumerate the role of functional foods in prevention of Cancer.
  19. Explain the types of Renal calculi and plan a suitable days menu for an adult man having Renal Calculi.
  20. Discuss the nutritional care and support for an adult man suffering from cirrhosis of liver.
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**F-0705**

**Sub. Code**

**7MHF2E2**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**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. List the types of birth.
2. What is meant by teratogens?
3. Define development.
4. State the benefits of immunation.
5. Define Play.
6. State any four communicable diseases and four deficiency diseases.
7. What is meant by behaviour problems?
8. List the major needs of children.
9. Who are said to be Gifted children?
10. State the benefits of using audio–visual aids for preschool children.

**Part B**

(5 × 5 = 25)

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

11. (a) Enlist the signs and symptoms of Pregnancy.

Or

- (b) Describe the types of birth.

12. (a) Elaborate on the nature Vs nature issue in human development with suitable examples.

Or

- (b) Define Weaning. Enlist the do's and dont's of weaning.

13. (a) Elucidate the developmental tasks to be accomplished during early childhood.

Or

- (b) Describe the Styles of parenting.

14. (a) Explain the cognitive developmental changes of late childhood period.

Or

- (b) Discuss the needs of children.

15. (a) Write a note on types of preschools existing in India.

Or

- (b) Who is said to be mentally handicapped? Discuss the types of Mental retardation.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the happenings during the three stages of prenatal development.
  17. Discuss the major principles guiding the process of growth and development.
  18. Bring out the Prevention and management strategies of any four communicable and deficiency diseases.
  19. Define habit State its advantages and disadvantages. Explain the process of habit formation.
  20. Enlist the significance of Preschool education and chart down the personal and academic essentials of a preschool teacher.
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**F-0706**

**Sub. Code**

**7MHF3C3**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023.**

**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. Define food toxin.
2. What do you safe packaging material?
3. What is GMP?
4. What is quality assessment of food?
5. List the functions of FAO.
6. Write shortly on essential commodities Act.
7. Give any four differences between toxic constituents and adulterants in food.
8. Write quality indices for any four meat products.
9. Define food laboratory.
10. Who is public analyst?

**Part B**

(5 × 5 = 25)

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

11. (a) Discuss on the threats to the safe food supply.  
Or  
(b) Explain about environmental toxins.
12. (a) Describe the method of quality assessment of processed food products.  
Or  
(b) Give an account on need and components of TQM.
13. (a) Briefly on the history of food law and regulations in India.  
Or  
(b) Explain about HALAL.
14. (a) Describe on the food quality indices of dairy products and spices.  
Or  
(b) Enumerate on the food adulteration.
15. (a) Discuss on the WHO assisted activities.  
Or  
(b) Explain on the state food laboratories.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Give an account on packaging materials.
17. Explain about HACCP under the following heads?  
(a) Meaning and principles  
(b) Application of HACCP



18. Discuss the functions of FAO and WHO.
  19. Detail on food additives.
  20. Describe on the role of state and central government in food quality.
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**F-0707**

**Sub. Code**

**7MHF3E1**

**M.Sc. DEGREE EXAMINATION, NOVEMBER 2023**

**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. Define diabetes insipidus.
2. List any four low glycemic foods.
3. Define polyphagia and polypepsia.
4. What is Insulin shock?
5. What is diabetic retinopathy?
6. Give any four complications of diabetic eye.
7. Brief on the diagnosis of diabetic nephropathy.
8. List any four riskfactors of CVD.
9. What do you mean by foot ulceration?
10. What is glycemic load?

**Part B**

(5 × 5 = 25)

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

11. (a) Enumerate on the symptoms of diabetes mellitus.

Or

- (b) Give an account of the risk factors in developing type two diabetes mellitus.

12. (a) Discuss the pathological changes in cardiovascular system due to diabetes mellitus.

Or

- (b) Write on HbA1C in detail.

13. (a) Discuss about hyper osmolar non keto coma.

Or

- (b) Distinguish the characteristics of hyper and hypoglycemia.

14. (a) Detail on the relationship between hyperglycemic and kidney function.

Or

- (b) Explain about the treatment and prevention of nephropathy.

15. (a) Discuss on the consequences of neuropathy.

Or

- (b) Enumerate on the diabetic foot ulceration.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Describe on the diabetes under the following heads:
    - (a) Definition
    - (b) Classification
    - (c) Riskfactors.
  17. Detail on the pathological changes in metabolism among diabetics.
  18. Discuss on diabetic keto and lactic acidosis in relation to glycemia.
  19. Explain about diabetic nephropathy.
  20. Describe and classify on diabetic neuropathy.
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