(Pages: 2)

Nam	е	••••••	•••••	•••••	••

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION MARCH 2021

(CBCSS)

Home Science-Nutrition and Dietetics

HND 4E 03 (01)-FOOD SAFETY AND QUALITY CONTROL

(2019 Admissions)

Time: Three Hours Maximum: 30 Weightage

General Instructions

- 1. In cases where choices are provided, students can attend all questions in each section.
- 2. The minimum number of questions to be attended from the Section/Part shall remain the same.
- 3. There will be an overall ceiling for each Section/Part that is equivalent to the maximum weightage of the Section/Part.

Part A

Answer any four questions, each in one paragraph.

Each question carries a weightage of 2.

- 1. Classify chemical toxins in food.
- 2. Structure of bacterial cell.
- 3. Non-perishable foods and perishable food items.
- 4. Different types of rotting in eggs.
- Ergotism.
- 6. Define Food safety.
- 7. Modified atmospheric packaging.

 $(4 \times 2 = 8 \text{ weightage})$

Part B

Answer any four questions, each within one page.

Each question carries a weightage of 3.

- 8 Classify moulds according to their reproduction
- 9. Discuss intentional adulterants.

- 10. Describe the usage of different types of plastics for packaging.
- 11. Interpret the salient features and administration of PFA act.
- 12. Explain ISO.
- 13. Discuss on any five synthetic food colours, their use and harmful effects of non-permitted colours.
- 14. Describe nutritional labeling and coding of food products.

 $(4 \times 3 = 12 \text{ weightage})$

Part C

Answer any two questions.

Each question carries a weightage of 5.

- 15. Define food borne disease outbreak. Elaborate on different types of food borne intoxications.
- 16. Elaborate the role of various national food standards and regulation in our country.
- 17. Elaborate on the advantages and disadvantages of food additives.
- 18. What are the changes occur in food due to spoilage? Explain the spoilage of cereals and cereal products.

 $(2 \times 5 = 10 \text{ weightage})$

(Pages: 2)

Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION

MARCH 2021 (CBCSS)

Home Science - Nutrition and Dietetics

HND 4E 02 (01)—DIABETIC CARE AND MANAGEMENT

(2019 Admissions)

Time: Three Hours Maximum: 30 Weightage

General Instructions

- 1. In cases where choices are provided, students can attend all questions in each section.
- 2. The minimum number of questions to be attended from the Section/Part shall remain the same.
- There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage
 of the Section / Part.

Part A

Answer any four questions, each in one paragraph.

Each question carries 2 weightage.

1. Glucose homeostasis.

2. Advantages of OGTT.

3. Hyperglycaemia.

4. Diabetes insipidus.

5. Cranial neuropathy

6. Metabolic syndrome.

7. Glycaemic load.

 $(4 \times 2 = 8 \text{ weightage})$

Part B

Answer any four questions, each within one page.

Each question carries 3 weightage.

- 8. Explain ketoacidosis.
- 9. Discuss on the classification of Diabetes Mellitus.
- 10. Explain the types of insulin.
- 11. Benefits of high fibre diet for diabetic patients.

- 12. Role of exercise in the management of diabetes.
- 13. Write a short note hypoglycemic drugs.
- 14. Symptoms and treatment of diabetic foot.

 $(4 \times 3 = 12 \text{ weightage})$

Part C

2

Answer any two questions.

Each question carries 5 weightage.

- 15. Explain pancreas under the following heads:
 - a) Anatomy.
 - b) Exocrine functions.
 - c) Endocrine functions.
- 16. Explain on the prevention, symptoms and complications of diabetic retinopathy.
- 17. Discuss on the different methods to diagnose diabetes.
- 18. Elaborate on obesity and its complications in Diabetes mellitus.

 $(2 \times 5 = 10 \text{ weightage})$

(Pages : 2)

Name]	Nam	e	••••••	••••••	•••••
------	---	-----	---	--------	--------	-------

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION MARCH 2021

(CBCSS)

Home Science—Nutrition and Dietetics

HND 4C 13 METABOLIC AND BIOCHEMICAL CHANGES IN DISEASES

(2019 Admissions)

Time: Three Hours

Maximum: 30 Weightage

General Instructions

- 1. In cases where choices are provided, students can attend all questions in each section.
- 2. The minimum number of questions to be attended from the Section/Part shall remain the same.
- 3. There will be an overall ceiling for each Section/Part that is equivalent to the maximum weightage of the Section/Part.

Part A

Answer four questions, each in one paragraph.

Each question carries a weightage of 2.

- 1. Phenylketonuria.
- 2. Osteoporosis.
- 3. Dyslipidemia.
- 4. Insulin resistance.
- 5. Glycemic Index.
- 6. Apoptosis.
- 7. Lactose Intolerance.

 $(4 \times 2 = 8 \text{ weightage})$

Part B

Answer any four questions, each within one page.

Each question carries a weightage of 3.

- 8. Explain blood glucose homeostasis.
- 9. Discuss actiology and types of renal calculi.

- 10. Elucidate the complications of fatty liver.
- 11. Explain the principle behind electrophoresis.
- 12. Elaborate on hormones secreted by pituitary.
- 13. Detail on the regulation of acid base balance in our body.
- 14. Discuss on pathophysiology of fever.

 $(4 \times 3 = 12 \text{ weightage})$

Part C

2

Answer any two questions.

Each question carries a weightage of 5.

- 15. Explain in detail about glycogen storage diseases.
- 16. Elaborate on thyroid hormones and metabolic syndrome.
- 17. Explain enzymes under the following headings:
 - (a) Factors affecting enzyme activity.
 - (b) Enzymes involved in digestion of food.
- 18. Discuss diabetes mellitus under the following headings:
 - (a) Types.
 - (b) Short term and Long term complications.

 $(2 \times 5 = 10 \text{ weightage})$