

**MASTER OF SCIENCE (DIETETICS AND FOOD
SERVICE MANAGEMENT) (M.Sc.) (DFSM)**

Term-End Examination

December, 2022

**MFN-005 : CLINICAL AND THERAPEUTIC
NUTRITION**

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Question no. 1 is compulsory.*
(ii) *Answer five questions in all.*
(iii) *All questions carry equal marks.*
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1. (a) List any three areas in which a dietician can specialize. 3
- (b) Illustrate the nutrition care process and model. 3
- (c) What is an exclusion diet ? Give two examples of exclusion diet. 3
- (d) List the general goals of Medical Nutrition Therapy for a AIDS patient. 3
- (e) What are the indications for providing parenteral nutrition support to patients ? 3
- (f) What is the significance of Waist-to-Hip Ratio (WHR) ? How will you use it to classify malnutrition ? 3
- (g) List any four foods containing gluten. 2

2. (a) Briefly explain the importance of protein intake in post-operative nutritional care of patients. 10
- (b) Discuss the Medical Nutrition Therapy for a burn patient. 10
3. (a) Differentiate between food allergy and food intolerance, giving appropriate examples. 5
- (b) Enumerate any five effects of drug on food intake, absorption, metabolism and/or excretion. 5
- (c) Briefly explain the role of antioxidants in cancer prevention. 5
- (d) Present the energy requirements you would recommend for obese, normal and underweight subjects based on activity levels. 5
4. (a) Why is tuberculosis called a wasting disease ? Present the nutritional care you will provide to a patient suffering from tuberculosis. 2+8
- (b) Give the dietary guidelines you would keep in mind while planning meals for hyperlipidemic patients, with special reference to dietary fats and carbohydrates. Give the recommendations along with foods you would emphasize in the diet. 10

5. (a) Briefly explain the complications of diabetes. 4
- (b) "Food Exchange System and Glycemic Index are important tools for planning diabetic diet." Justify the statement, giving appropriate examples. 8
- (c) What diet therapy would you advocate for the management of
- (i) Gout, and
- (ii) Maple Syrup Urine Disease ? 4+4
6. (a) Briefly discuss the role of Fibre and Fluids in the management of the following :
- (i) Diarrhoea
- (ii) Constipation
- Comment on the kind of foods you will include in the diet. 5+5
- (b) Give the medical nutritional management of the following : 5+5
- (i) Peptic Ulcer
- (ii) Hepatic Coma
7. (a) List any four diagnostic tests you would consider for diagnosis of Kidney diseases. 2
- (b) Justify the role of protein, sodium, potassium and fluids in the management of chronic renal failure. Present the dietary guidelines for these nutrients. 8

- (c) Present the nutrient requirements and feeding options for the following : 5+5
- (i) Preterm/Low Birth Weight Infant
 - (ii) Parkinson's disease

8. Write short notes on any **four** of the following : 5+5+5+5

- (a) Feeding and Nutritional Management of Dysphagia
 - (b) Dietary Management during Dialysis
 - (c) Nutrient Requirement and Dietary Management of Ulcerative Colitis
 - (d) Nutritional Management of Anorexia Nervosa
 - (e) Metabolic Aberrations and Consequences of Obesity
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