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MFN-005

**MASTER OF SCIENCE (DIETETICS)
(FOOD AND NUTRITION)**

M. SC. (DFSM)

Term-End Examination

June, 2024

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

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Question No. 1 is compulsory.*

(ii) *Attempt **five** questions in all.*

(iii) *All questions carry equal marks.*

1. (a) Define Syndrome 'X'. How will you identify a person suffering from Syndrome 'X'. 1+2
- (b) What is Maple Syrup urine disease ? 2
- (c) Explain the following in **2-3** sentences each : 2+2
 - (i) Diverticular disease
 - (ii) Glycosylated Haemoglobin

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- (d) Define glycemic index. Give *one* example each of foods with low, medium and high glycemic index. 3
- (e) What do you understand by the term central obesity ? Give the diagnostic criteria for central obesity and its consequence. 1+1+1
- (f) Differentiate between hypokalemia and hyponatremia. 3
- (g) Give *two* modifiable and *two* non-modifiable risk factors for coronary heart disease. 2
2. (a) What are therapeutic diets ? What is the purpose of therapeutic diets ? Enlist any *four* therapeutic adaptations of normal diet for health and disease. 2+2+4
- (b) What do you understand by special feeding methods in nutrition support ? When are there methods indicated ? Substantiate your answer with suitable examples. 8

- (c) Enlist the dietary principles underlying enteric fever. 4
3. (a) Define Medical Nutrition Therapy. Briefly discuss your role as a dietitian in the nutrition care process. 2+8
- (b) What is adverse food reaction ? Give the handy guidelines you would advocate for prevention of adverse food reactions. 2+8
4. (a) Discuss the role of fibre and fats in the management and etiology of hyperlipidemia. 4+6
- (b) Briefly explain the nutritional management of the following conditions : 5+5
- (i) Phenylketonuria
- (ii) Gastro-oesophageal reflux disease

5. (a) Enlist the handy guidelines/points you would advocate as a nutrition counselor to a patient suffering from : 5+5
- (i) Peptic ulcer
 - (ii) Chronic pancreatitis
- (b) Briefly explain the drugs effect on nutritional status giving suitable examples. 5
- (c) Give the dietary management highlighting the foods you would limit/exclude in the diet of a patient suffering from gall bladder disease. 5
6. Give the dietary principles involved in the management of the following : 5+5+5+5
- (i) Gestational diabetes
 - (ii) Celiac disease
 - (iii) Constipation
 - (iv) Epilepsy

7. (a) What is cirrhosis ? Present the objectives and medical nutrition therapy for a person suffering from cirrhosis. 2+8
- (b) Why is it a challenge to feed a patient with chronic kidney failure (CKF) ? Give the nutrient needs, dietary guidelines and management of a patient suffering from CKF. 3+7
8. Write short notes on any *four* of the following : 5 each
- (a) Calorie and nutrient requirements during post-operative period
- (b) Malabsorption syndrome
- (c) Medical Nutrition Therapy for an AIDS patient
- (d) Classification of obesity and underweight among children (5-19 years).
- (e) Feeding problems related to cancer patients.