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MFN-005

**MASTER OF SCIENCE (DIETETICS
AND FOOD SERVICE MANAGEMENT)**

M. SC. (DFSM)

Term-End Examination

December, 2020

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

Time : 3 Hours

Maximum Marks : 100

Note : Answer *five* questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) Name the enzymes impaired in the following metabolic diseases : 5
- (i) Galactosemia
 - (ii) MSUD
 - (iii) Phenylketonuria
 - (iv) Tyrosenemia
 - (v) Tay-Sachs disease

- (b) List any *two* foods rich in potassium. What process would you adopt to reduce potassium content in these foods ? 3
- (c) List any *two* nutrient and drug interactions. 2
- (d) List the modifiable and non-modifiable risk factors of CHD. 4
- (e) List any *two* anti-oxidants and their food sources you would prescribe for cancer patients. 4
- (f) Differentiate between a high fibre diet and high residue diet giving examples. 2
2. (a) Present a detailed review on the types of dietary adaptations recommended for therapeutic needs. Give suitable examples. 10
- (b) Describe the nutrition care process and its various components. 10
3. (a) What do you understand by “Weight Management” ? 2
- (b) Present the energy requirement you would recommend for an obese, normal and underweight adult. 5
- (c) What are the consequences of obesity ? 5

- (d) Explain the three-pronged approach you would adopt for obesity management, with suitable justifications. 8
4. (a) What feeding method(s) would you adopt for providing nutrition support to ill patients ? Explain in detail giving appropriate examples. 12
- (b) Elaborate on the preventive measures you would advocate to a patient and his/her family suffering from adverse food reactions. Explain with examples. 8
5. (a) Briefly describe the role of carbohydrates, proteins and fats in the management of the following diseases : 8+8
- (i) Diabetes
- (ii) Hyperlepidemia
- (b) Discuss the nutritional management of constipation. 4
6. (a) What dietary modifications would you recommend for an acute renal failure patient ? Present the rationale for the modification. 10

- (b) What are the dietary recommendations for liver cirrhosis ? Justify giving the nutrient requirements and measures you would adopt to meet these requirements. 10
7. Elaborate on the medical nutrition therapy for :
5 each
- (a) Peptic ulcer
 - (b) Celiac disease
 - (c) Gout
 - (d) Diverticulosis
8. Write short notes on any *four* of the following :
5 each
- (a) Cancer cachexia and its management
 - (b) Various theories relevant to dietary counselling
 - (c) Dietary management of HIV/AIDS
 - (d) Nutritional management of anorexia nervosa
 - (e) Dietary considerations for the management of gall stores