

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

**Term-End Examination**

**June, 2016**

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

*Time : 3 hours*

*Maximum Marks : 100*

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

1. (a) MSUD is a group of inherited metabolic disorder of three branched chain amino acids (BCAA). Name the three BCAA. 1½
- (b) Define residue. Give the main sources of residue in our diet. 2½
- (c) Name any one enzyme impaired in the metabolic disease Galactosemia. 1
- (d) List any five foods that must be avoided during GERD. 2½
- (e) List the three disorders included in the inflammatory bowel disease (IBD). 1½
- (f) Give any two clinical manifestations of Syndrome X. 1
- (g) Differentiate between the following : 5
  - (i) Glycemic Index and Glycemic Load
  - (ii) Food Allergy and Food Intolerance
- (h) Give the ratio of Polyunsaturated to Saturated (P/S) fat in the diet which is considered healthy. 1

- (i) Give a list of foods rich in potassium. 2
- (j) List any two cancer preventive nutrient and their food sources. 2
2. (a) Give the classification you would use to categorise children/adolescent and adults into different grades of malnutrition.  $2\frac{1}{2}+2\frac{1}{2}$
- (b) What method would you use to calculate the energy requirement for obese, normal, underweight individuals ? 5
- (c) Give the classification and etiology of Diabetes. 5
- (d) Briefly explain the role of carbohydrates in the diet of a diabetic patient giving the percentage and distribution pattern of carbohydrate in the diet . 5
3. Give the advantages of the following :
- (a) DASH diet for a hypertensive patient 8
- (b) Use of PKU food pyramid while counselling patients suffering from phenylketonuria. 6
- (c) Gluten free diet for a celiac patient. 6
4. (a) Explain the role of fats and oils in the etiology and management of hyperlipidemia. 8
- (b) Discuss the dietary considerations you would recommend for management of : 6+6
- (i) Gallstones
- (ii) Renal calculi

5. (a) Explain the use of a ketogenic diet in the management of epilepsy. 8
- (b) What are the special feeding methods in nutrition support ? Enlist their advantages and disadvantages. 2+4
- (c) Discuss the dietary principles and management of enteric fever (typhoid). 6
6. Give the medical nutrition therapy for the following conditions : 6+8+6
- (a) Ulcerative Colitis
- (b) Hepatic Coma
- (c) Diarrhoea
7. (a) Explain the modifications in the intake of proteins, electrolytes and fluids you will recommend in the diet of a renal patient. 10
- (b) What handy tips would you give to a patient or the family members of the patient suffering from ? 5+5
- (i) Gout
- (ii) Constipation
8. Write short notes on any four of the following :
- (a) Nutrition medical treatment of burns. 5+5+5+5
- (b) Dietary management of Sepsis.
- (c) Types of dietary adaptations for therapeutic needs.
- (d) The nutrition care process.
- (e) Significance of elimination diet and food challenge in the context of adverse food reactions.
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