

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

Term-End Examination

December, 2012

**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) Differentiate between the following sets of terms : 10
- (i) Obesity and overweight
 - (ii) Food Allergies and Food Intolerance
 - (iii) Enteral Nutrition and Parenteral Nutrition
 - (iv) Anorexia Nervosa and Bulimia Nervosa
 - (v) M6 fatty acid and N-3 fatty acids
- (b) Fill in the blanks : 5
- (i) _____ infection is implicated in the causation of duodenal ulcers
 - (ii) Cholecystitis refers to inflammation of _____.
 - (iii) In haemodialysis _____ g/kg/day protein is required.

- (iv) An adult with a blood pressure _____ (SBP/DBP) will be classified as suffering from hypertension (Stage 1)
- (v) Homocystinuria, an metabolic disease results from errors of _____ metabolism.
- (c) Give the full form of the following $2\frac{1}{2}+2\frac{1}{2}$ abbreviations and explain in 2-3 sentences each.
- (i) MSUD
- (ii) GERD
2. Explain the following briefly : $5+5+5+5$
- (a) Scope of counselling in dietetic practice.
- (b) Salient features of the diet given to a typhoid patient.
- (c) Types of dietary adaptations for therapeutic needs.
- (d) Steps in nutrition care process.
3. (a) Discuss the importance of energy and protein intake for a burn patient 8
- (b) What is the significance of providing feeding support during sepsis and trauma. 7
- (c) State the meal pattern and feeding considerations for a cancer patient. 5

4. (a) Briefly explain the consequences of obesity. 6
- (b) Enumerate the modifiable and the non modifiable risk factors for coronary heart diseases. 6
- (c) Discuss the significance of fats and fibre in the diet of a coronary heart disease patient. 4+4
5. (a) What are the sources of dietary fibre in our diet ? What are the recommendation for fibre for an adult man and woman ? 5
- (b) Present the nutritional medical therapy for a patient suffering from chronic gastritis. 8
- (c) What do you understand by the term 'Inflamnatory Bowel Disease' (IBD) ? Explain why a patient suffering from IBD is at risk to malnutrition. 2+5
6. (a) Rationalize the dietary modifications for protein, minerals and fluids for different renal disorders. 10
- (b) Comment on the energy and protein needs for liver diseases. What kind of protein would you recommend for a patient with liver disease ? 10

7. Mr. Verma is a 40 year old executive weighing 80 kg at 5.7¹¹ height. He is a diabetic.
- (a) Calculate his calorie requirement according to weight and acturty 4
 - (b) What advice would you give him regarding the use of glycemic index for planning his diet. 6
 - (c) Would you recommend supportive therapy to manage his hyperglycemia ? Justify your answer. 5
 - (d) Enumerate some of the common complications of diabetes about which you would like to counsel Mr. Verma about. 5
8. Write short notes on *any four* of the following :
- (a) Measures to be adopted for the prevention of adverse food reactions. 5+5+5+5
 - (b) Dietary recommendation during diarrhoea.
 - (c) Dysphagia _____ Feeding and Nutritional Management.
 - (d) Nutrient requirement and feeding options for premature/low birth weight babies.
 - (e) Nutritional Medical Therapy for HIV/AIDS patient.
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