

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

Term-End Examination

June, 2014

MFN-005 : CLINICAL AND THERAPEUTIC NUTRITION

Time : 3 hours

Maximum Marks : 100

Note : Question 1 is compulsory. Answer five questions in all.

All questions carry equal marks.

1. a) List four different areas of specialization for a dietitian. 2
- b) Name the measure which defines the level of adiposity according to the relationship of weight to height. 1
- c) Define medical nutrition therapy (MNT). 2
- d) How is a clear liquid diet different from a full fluid diet? Give example. 2½
- e) List five metabolic changes occurring in the body as Consequence of injection? 2½
- f) List four disease conditions when enteral nutrition may be indicated. 2
- g) List four common causes of food intolerance. 2

- h) Give two examples of the effect of drugs on nutritional status. 2
- i) What is cancer cachexia? 2
- j) List any two modifiable and two non-modifiable risk factors for coronary heart disease. 2
2. a) What is a therapeutic diet? Give its purpose and types of dietary adaptations for therapeutic needs. 10
- b) What is the nutrition care process? Briefly explain its significance highlighting the steps involved. 10
3. Explain the following briefly giving examples. $5+5+5+5=20$
- a) Malnutrition is an important and complicated consequence of HIV infection.
- b) Dietary principles underlying the enteric (typhoid) diet.
- c) Advantages and disadvantages of using parenteral nutrition.
- d) Dietary management (objectives and nutrient requirement) for burns.

4. a) What is (i) elimination diet , and (ii) food challenge. Discuss their relevance in diagnosis of adverse food reactions. 10
- b) Briefly describe the role of antioxidants in cancer prevention. 6
- c) Give the classification you will use to measure weight status in children based on percentile curves for BMI for age. 4
5. a) What is syndrome X? 5
- b) "Type and quality of fats and carbohydrates can help in controlling hyperlipidemia. Justify the statement giving appropriate examples. 8
- c) Explain how and why the glycemic index is an important tool for planning diabetic diet? 7
6. Comment on the statements giving appropriate $5+5+5+5=20$ justifications.
- a) Treatment of gout often include a diet of lower purine intake.
- b) Low fibre/low residue diet help control diarrhoea.
- c) Meals are the major aggravating factor of GERD symptoms.

- d) Current management approach of peptic ulcer is liberalized and patient specific.
7. a) Discuss the medical nutrition therapy for hepatic coma with special emphasis on the amount and kind of protein recommended for hepatic coma. **10**
- b) Give the role of dietary management during dialysis? Comment on the protein, sodium and potassium intake for patients on dialysis? **10**
8. Write short notes or *any four* of the following. **5+5+5+5=20**
- a) Dietary recommendations for celiac disease.
- b) Feeding and nutritional issues, generate goals of nutritional case for neurological diseases.
- c) Nutritional management and feeding the preterm infants.
- d) Diet therapy for phenylketonuria.
- e) Nutritional management of hypertension.

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