

**Ph. D. (FOOD AND NUTRITION)**  
**(PHDFN)**

**Term-End Examination**

**December, 2024**

**RFNE-003 : CLINICAL NUTRITION AND  
DIETETICS**

*Time : 3 Hours*

*Maximum Marks : 100*

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

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1. (a) Give the specific nutrient requirement in each of the following conditions/situations :

1×10=10

- (i) Energy intake in enteric injection.
- (ii) Minimum amount of protein to maintain nitrogen balance in healthy adults.
- (iii) Protein requirement for a pre-term baby.

- (iv) Energy need of an adult with burns.
  - (v) Energy requirement (kcal/kg IBW/day) for a moderately active underweight adult.
  - (vi) Saturated, polyunsaturated (PUFA) and monosaturated fatty acid requirement in adults.
  - (vii) Dietary fibre for a hyperlipidemic patient.
  - (viii) Protein intake for viral hepatitis in an adult patient.
  - (ix) Calorie requirement (kcal/kg IBW/day) for an adult overweight sedentary diabetic female.
  - (x) Sodium requirement during dialysis.
- (b) Explain the following in 2-3 sentences each :  $2 \times 5 = 10$
- (i) Diverticulosis
  - (ii) Residue
  - (iii) Tyrosinemia
  - (iv) Dumping syndrome
  - (v) Crohn's disease

2. (a) Differentiate between enteral and parenteral feeding highlighting the benefits and disadvantages of the two. 10
- (b) "Normal nutrition is a basis for a therapeutic diet." Justify the statement giving appropriate examples. 10
3. (a) Briefly describe the role of fat, cholesterol and sodium in the management of cardiovascular diseases. 10
- (b) "Food exchanges and glycemic index are important tool for planning diabetic diet." Comment giving appropriate justifications. 10
4. Discuss the role of the following in therapeutic nutrition : 7+6+7
- (a) PKU food pyramid
- (b) Zinc in the management of diarrhoea
- (c) Liberalized approach in the management of peptic ulcer
5. (a) What is the last stage of liver disease ? Present the dietary recommendation for this condition. 10

- (b) Present the medical nutrition therapy for a nephroic syndrome patient. 10
- 6. (a) Highlight the general goals of nutritional care for neurological diseases. 6
- (b) Present the nutritional management of celiac disease. 8
- (c) Present a list of cancer preventive nutrients/food components and their food sources. 6

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