

M.Sc Sem-3 Examination**504****Food Science & Nutrition****Time : 2-30 Hours]****November-2024****[Max. Marks : 70****Instructions:** All questions in Sections I & II carry equal marks

Illustrate your answers with neat diagrams wherever necessary.

Question 1 Write the following

- (i) Describe the metabolic response in trauma in phases. (7 Marks)
- (ii) Define Malnutrition, its causes, and consequences in hospitalized patients. (7 Marks)

OR

- (i) Describe metabolic changes and adaptation in infection. (7 Marks)
- (ii) Discuss key components of SGA and MNA in detail. (7 Marks)

Question 2 Write the following

- (i) What is the difference between TPN and PPN? (7 Marks)
- (ii) What are the calorie and protein goals in critically ill patients? (7 Marks)

OR

- (i) Discuss the different types of Enteral formulas (7 Marks)
- (ii) What are the most common indications for parenteral nutrition? (7 Marks)

Question 3 Write the following

- (i) How does the disaster management cycle work? (7 Marks)
- (ii) What are the strategies for ensuring adequate nutrition in disaster-affected areas? (7 Marks)

OR

- (i) What are the specific roles of key national and international organizations in disaster response and recovery? (7 Marks)
- (ii) What are the primary responsibilities of the National Disaster Management Authority (NDMA)? (7 Marks)

(P.T.O)

Question 4 Write the following

- (i) Mention the names of microorganisms and the biological hazards they cause (7 Marks) to the food supply.
- (ii) Explain in detail about incidental adulteration. (7 Marks)

OR

- (i) Intentional adulteration is a big problem explain how? (7 Marks)
- (ii) What are the problems caused by metallic contamination and packaging (7 Marks) hazards? Explain.

Question 5 Attempt any seven out of twelve (14 Marks)

- (i) Give any two reasons for intentional adulteration?
- (ii) How will you identify if the cloves if have brought from market are adulterated?
- (iii) Write the full form of FSSAI. What role FSSAI plays in the food industry sector?
- (iv) What happens to metabolic rate after surgery?
- (v) List out phases of the Nutrition care process.
- (vi) MUST stand for ____? Describe it in brief.
- (vii) Brief role of Arginine in metabolic stress.
- (viii) Define Immunonutrition and give any two immunonutrients
- (ix) Expand MODS and SIRS
- (x) What is Refeeding syndrome?
- (xi) Define Starvation.
- (xii) Define Nutritional Assessment.