THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

CC24UFTL3CJ201 - NUTRITION SCIENCE

(B.Sc. Food Technology - Major Course)

(2024 Admission - Regular)

Time: 2.0 Hours   Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1.	Enlist the four forms of malnutrition.	[Level:4] [CO1]
2.	Expand and define BMI.	[Level:4] [CO1]
3.	Define health.	[Level:4] [CO1]
4.	How does direct calorimetry differ from indirect calorimetry.	[Level:2] [CO2]
5.	Define physiological fuel value.	[Level:1] [CO2]
6.	Explain the role of carbohydrates in protein sparing action.	[Level:3] [CO3]
7.	Discuss protein-rich foods for vegetarians and vegans.	[Level:3] [CO3]
8.	Brief on the functions of vitamin K.	[Level:4] [CO4]
9.	Describe scurvy.	[Level:4] [CO4]
10.	Classify minerals.	[Level:4] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11.	How does nutritional requirement change during elderhood.	[Level:4] [CO1]
12.	Formulate diet menu for school going children including 3 meals a day.	[Level:4] [CO1]
13.	Classify human lifestyle based on different levels of energy demand.	[Level:2] [CO2]
14.	Discuss indirect calorimetry and its applications. Explain the use of respiratory quotient (RQ) in energy metabolism.	[Level:2] [CO2]

15. Explain the health implications of excess and deficiency of fats. [Level:3] [CO3]

16. Prepare an essay on cholesterol and its dietary role. [Level:2] [CO3]

17. Discuss the role of water quality in nutrition and health. [Level:4] [CO4]

18. Report on the functions and sources of iodine. [Level:4] [CO4]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

19. How do you plan meal for a family and what factors affect it. [Level:4] [CO1]

20. Write an essay on carbohydrate digestion, absorption and metabolism. [Level:3] [CO3]

(1 × 10 = 10 Marks)

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