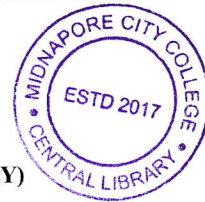


**PG CBCS**  
**M.Sc. Semester-I Examination, 2022**  
**FOOD SCIENCE & NUTRITION**  
PAPER: FSN 102  
**(FOOD CHEMISTRY & NUTRITIONAL BIOCHEMISTRY)**



**Full Marks: 40**

**Time: 2 Hours**

**GROUP- A**

**Answer any FOUR questions:**

**4 X 2=08**

1. Write down any two properties of amino acid.
2. Define artificial sweetener with example.
3. Write down any two functions of phospholipid.
4. What is nucleotide?
5. What are the structural elements of carbohydrate in human body?
6. What are transporters in glycolysis?
7. What do you mean by protein folding?
8. Define isozyme with example.

**GROUP- B**

**Answer any FOUR questions:**

**4 X 4= 16**

9. Classify protein with examples.
10. Write a short note on monosaccharide derivatives.
11. Write down the functions of dietary fiber.
12. Write a short note on Megaloblastic anaemia.
13. Discuss the factors affecting enzyme action.
14. Write down the importance of HMP pathway.
15. Mention the RDA and functions of vitamin C.
16. Describe the regulatory mechanism of Cori cycle.

**GROUP- C**

**Answer any TWO questions:**

**2 X 8= 16**

17. Why gluconeogenesis is more importance? Write the different amino acids and lipid biomolecules as substrate in gluconeogenesis. 4+4
18. Describe about the coenzyme properties of different vitamins in metabolism.
19. What is wobble hypothesis? Mention the functions of different types of RNA. 2+6
20. Why LDL is called bad cholesterol? Classify lipoproteins: Mention any two functions of lipoprotein. 2+3+3