



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 4th Semester Examination, 2022

**CC8-PHYSIOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Attempt any *five*: 1×5 = 5
- (a) What is biotin?
  - (b) What is fuel value?
  - (c) What is the importance of THF?
  - (d) What is Acute Starvation?
  - (e) What is the importance of hemicellulose in dietary fiber?
  - (f) What do you mean by *n*-6 fatty acid?
  - (g) What is dyslipidemia?
  - (h) Define 1st class Protein with example.
  - (i) Name the vitamin required to prevent Nyctalopia.
  - (j) What is Leptin?

**GROUP-B**

**Attempt any *three*** 5×3 = 15

- 2. Differentiate the nutritional value of meat and fish. 5
- 3. Write a note on NPU. 5
- 4. Describe the treatment of Kwashiorkor with a balanced diet. 5
- 5. Describe the importance of major nutrients in cellular oxidation. 5
- 6. Mention the key features of formulation of balanced diet. 5

**GROUP-C**

**Attempt any two**

10×2 = 20

7. Calculate the energy requirement of one Pregnant woman and one Lactating woman. 5+5
8. Describe the role of vitamins in — 4+3+3
- (a) Removal of Free Radicals
- (b) Synthesis of Prothrombin
- (c) Prevention of infantile and adult scurvy.
9. Describe the sources, daily requirement and functions of sodium and potassium. 5+5
10. Prepare a balanced diet chart for the dietary management of class-1 and class-3 obesity. 5+5

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