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RNLKWC/B.Sc./CBCS/IVS/H/C9T/22

2022

**PHYSIOLOGY**

**[HONOURS]**

**(B.Sc. Fourth Semester End Examination-2022)**

**PAPER-C9T**

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

**Group A**

**Answer any FIVE questions of the following: 5x2= 10**

1. What do you mean by glycemic index?
2. Distinguish between positive and negative nitrogen balance.
3. What is Net Protein Utilization?
4. What is antivitamin & provitamin.
5. Write the functions of calcium in muscle?
6. What is hypokalemia and hypercalcemia?
7. What do you mean by biological value of protein?
8. Write the function of cyanocobalamin.

**Group B**

**Answer any FOUR questions of the following: 4x5 = 20**

1. What is RDA? What factors affect the RDA? 2+3

(2)

2. What are beneficial and adverse effects of dietary fibres.

$2\frac{1}{2} + 2\frac{1}{2}$

3. a) "vitamin D is a hormone and not a vitamins" – Justify.

b) Mention the functions of iron in human body? 3+2

4. Discuss the biochemical functions of vitamin-C Write about the therapeutic use of megadoses of this vitamin.

$2\frac{1}{2} + 2\frac{1}{2}$

5. Define BMR. Discuss the factors affecting BMR. 2+3

6. Formulate a balanced diet for lactating mother 5

### Group C

Answer any ONE question of the following: 1x10 = 10

1. Define balance diet. Discuss the factors affecting RQ. What is xerophthalmia & keratomalacia. 2+4+4

2. Discuss in brief about the ;

- chemistry

- daily measurements

- biochemical functions

- absorption, transport and storage

- deficiency manifestations of vitamin C 2+1+2+3+2