

U.G. 1st Semester Examination - 2021**FOOD & NUTRITION****[HONOURS]****Course Code : F&N-H-CC-T-1**

Full Marks : 40

Time : $2\frac{1}{2}$ Hours*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** questions: $2 \times 5 = 10$

- What are Cristae?
- State the functions of Smooth Endoplasmic Reticulum.
- What is Clotting time?
- State the location of Semi lunar valve.
- What is Cardiac Output?
- What is isotonic muscle contraction?
- What is Surfactant?

2. Answer any **two** questions: $5 \times 2 = 10$

- Discuss the process of Oxygen Transport in the human body. 5
- What is Homeostasis? What is positive and negative feedback? $1+2+2$
- State the process of digestion of carbohydrate in human body. What is Chylomicron? $4+1$
- Describe briefly the structure of lungs. 5

3. Answer any **two** questions: $10 \times 2 = 20$

- Describe the structure of human heart with a diagram. State Frank Sterling Law of heart. $6+2+2$
- Classify different types of blood groups mentioning the agglutination and agglutinin as per ABO blood group system. What is Rh factor? State the functions of Rh factors. $6+2+2$
- Describe the structure of plasma membrane and mitochondria with a diagram. $5+5$
- Describe different types of blood pressure mentioning its values. State the mechanism of blood pressure regulation. $4+6$

[Turn Over]