

2023

FOOD AND NUTRITION — HONOURS

Paper : CC-2

(Human Physiology - I)

Full Marks : 50

*The figures in the margin indicate full marks.*

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

Answer **any five** questions.

1. What is MABP? Describe the role of baroreceptors and chemoreceptors in the regulation of blood pressure. What is semilunar valve? 2+(3+3)+2
  2. Describe the intrinsic mechanism of blood coagulation with a schematic diagram. State any two important functions of WBC. 8+2
  3. Describe the mechanism of skeletal muscle contraction with a labelled diagram. What do you mean by myofilament? 8+2
  4. Describe the composition, functions and regulation of secretion of gastric juice. 3+3+4
  5. What is 'minute volume'? Describe the ventricular events of cardiac cycle with schematic diagram. What is ABO Blood group system? 2+6+2
  6. Describe the digestion of proteins in the alimentary canal with a schematic diagram. State the functions of gall bladder. 6+4
  7. Describe the structure and functions of
    - (a) Mitochondria
    - (b) Ribosome.What do you mean by nucleotide? (2+2)+(2+2)+2
  8. Describe the mechanism of CO<sub>2</sub> transport in blood from tissue-cells to lungs. What do you mean by 'Chloride shift'? What is oxyhaemoglobin? 5+3+2
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