

SECTION "B" (Short Answer Question) Marks: 16

NOTE: Attempt any EIGHT part questions in all. Select FOUR Reasoning Questions and FOUR Non-Reasoning Questions. All part questions carry equal marks.

2.(a) REASONING QUESTIONS:

- i) Why is SA node called pace maker of the heart?
- ii) How does stomach protect against HCl?
- iii) Why is artificial sweetener not harmful to diabetic patient?
- iv) Why are water molecules called amphoteric in nature?
- v) Why are Annelids, Mollusca and Arthropods considered as protostomes?
- vi) Why do capillaries have single layer of Endothelium?

2.(b) NON-REASONING QUESTIONS:

- vii) Differentiate Cartilaginous and Bony fishes.
- viii) Write the characteristics of Enzymes.
- ix) Write a note on ECG.
- x) State the types of structural proteins with examples.
- xi) Mention the causes of Sinusitis or Otitis Media.
- xii) Write a note on Allergy or Autoimmune disease.

Section C (Detailed –Answer Question) (16)

NOTE: Attempt any TWO question from this section.

All questions carry equal marks.

3. What is Cytotoxicity? Explain the mechanism of NK cells and TC cells.

OR Describe the structure of Human Heart with the help of labelled diagram. Explain heart attack and heart failure.

4. Write the general characteristics, evolutionary adaptation and economic importance of Phylum Mollusca or Arthropoda.

5. Explain main components of the respiratory system of man and draw neat and labelled diagram.