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B.Sc. Cardiac Care Technology (Semester – 1st)

HUMAN PHYSIOLOGY- PART I

Subject Code: BCCTS1102

Paper ID: [21132402]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) Define Cardiac cycle.
- b) Enumerate the functions of plasma proteins.
- c) Draw a well labeled diagram of ECG.
- d) Define anemia.
- e) Write the composition of gastric juice.
- f) What are the non-respiratory functions of lungs?
- g) Define tidal volume.
- h) What is a neuromuscular junction?
- i) Explain the composition of blood
- j) Define diffusion.

Section – B

(5 marks each)

- Q2. Write a short note on transport across the cell membrane.
- Q3. Define blood pressure. Briefly explain the regulation of blood pressure.
- Q4. Write a short note on composition and functions of pancreatic juice.
- Q5. Explain the functions of respiratory system.
- Q6. Explain the structure of neuron with the help of suitable diagram.

Section – C

(10 marks each)

- Q7. Write a short note on regulation of respiration.
- Q8. Explain the phases of cardiac cycle.
- Q9. Explain the excitation contraction coupling with the help of diagrams.