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Total No. of Pages : 02

Total No. of Questions : 07

Master of Science (Clinical Research) (Sem.-1)

**FUNDAMENTALS OF PHYSIOLOGY**

Subject Code : UC-MSCR-115-19

M.Code : 77297

Date of Examination : 28-01-23

Time : 2 Hrs.

Max. Marks : 35

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of FIVE questions carrying ONE marks each.
2. SECTION-B contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Answer briefly :**

- a. Which hormones are secreted by adrenal gland?
- b. What is the function of cholecystokinin?
- c. What are physiological functions of liver?
- d. What is pulmonary circulation?
- e. What are the functions of neurons?

**SECTION-B**

2. Describe the release, functions and disorders of growth hormone.
3. Define cardiac cycle. Give details of various stages of cardiac cycle.
4. What are the different parts of brain? Write a note on cerebrum.

### SECTION-C

5. Explain the mechanism of smooth muscle contraction.
6. Explain the process of digestion of carbohydrates, proteins and fat in humans.
7. Describe the composition and function of blood and its elements.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**