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Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. Radiotherapy Technology (Sem.-1)**  
**HUMAN ANATOMY AND PHYSIOLOGY-I**  
Subject Code : BSOT-101-19  
M.Code : 77187

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

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

**SECTION-A****1. Write briefly :**

- a. What is tissue? Name various types of tissues.
- b. What is lymph? Highlight difference between lymph and blood.
- c. What is Rh factor? Indicate significance of Rh factor in blood transfusion.
- d. What are sutures? Give two examples.
- e. Indicate various types of ribs.
- f. What is total lung capacity?
- g. Define cardiac output and stroke volume.
- h. What is pace maker?
- i. Enlist bones of upper limb.
- j. Define Mitosis & Meiosis.

### SECTION-B

2. Discuss various functions of the blood.
3. Describe various events of a typical cardiac cycle.
4. Describe physiology of muscle contraction.
5. Write a note on synovial Joint.
6. Add a brief note on lungs.

### SECTION-C

7. With the help of a neat diagram describe internal structure of the heart.
8. Write a critical note on epithelial tissue.
9. Discuss physiology of white blood cells.

**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.**