

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Operation Theatre Technology) (Sem.-1)

HUMAN ANATOMY AND PHYSIOLOGY - I

Subject Code : BSOT-101-19

M.Code : 79113

Date of Examination : 10-01-2023

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) Define meiosis.
- b) Differentiate between artery and vein.
- c) Define Total Lung Capacity.
- d) Write down the properties of smooth muscles.
- e) Write down the composition of blood.
- f) Define cardiac cycle.
- g) What are transfusion reactions?
- h) Write down functions of lymphatic system.
- i) Write down various joint movements.
- j) Name the longest and shortest bone of human body.

SECTION-B

2. Classify joints. Write a note on various joint movements.
3. Define somatic cell division. Explain the process of mitosis.
4. Write a note on following:
 - a) Respiratory volumes
 - b) ECG.
5. Explain the structure and functions of lymphatic system.
6. Write down the division of skeletal system. Explain in brief about axial skeletal system.

SECTION-C

7. Classify tissues. Write down a note on epithelial and connective tissue.
8. Draw a well labeled diagram of heart and explain its structure, circulation and functions.
9. Draw a well labeled diagram of respiratory system. Explain the mechanism of respiration.

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.