

Roll No.

Total No. of Pages :02

Total No. of Questions : 13

B.Pharma (2017 & Onwards) (Sem.-1)
HUMAN ANATOMY AND PHYSIOLOGY-I

Subject Code : BP-101T

M.Code : 74644

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Answer briefly :

- a) Name two liquid connective tissues.
- b) What is the normal platelet count? In which viral disease its number markedly gets decreased?
- c) Name two locations where simple squamous epithelium is present.
- d) Give the formula for cardiac output. What is the normal cardiac output?
- e) Which is the uppermost layer of skin?
- f) Name two structural proteins involved in skeletal muscle contraction.
- g) Which organelle is responsible for degradation of abnormal proteins? Name the powerhouse of a cell.
- h) In which stage of mitosis, chromosomes move towards the opposite pole? Name the cell cytoskeleton that is responsible for formation of spindle fibres.
- i) Name two joint movements.
- j) Which connective tissue is responsible for immune responses?

SECTION-B

2. Describe the process of skeletal muscle contraction. What is the role of calcium and ATP in physiology of skeletal muscle contraction?
3. Explain the clinical significance of blood grouping. Describe the intrinsic and extrinsic pathways involved in blood coagulation.
4. Differentiate between the structure of artery and vein. Discuss the cardiac cycle in detail.

SECTION-C

5. What role kidney plays in regulating blood pressure?
6. What are the various characteristics and functions of epithelial tissue?
7. Differentiate between active and passive transport processes across cell membrane.
8. Draw a well labelled diagram of a :
 - a) Neuron
 - b) Cell
9. Discuss briefly the physiology of hearing.
10. Elaborate the structure of skin with the help of a diagram.
11. Write a note on parasympathetic nervous system.
12. How lymph is formed? Describe various functions of lymphatic system.
13. Describe the various forms of intracellular signalling.

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.