

JAMIA HAMDARD
School of Pharmaceutical Education and Research
B. Pharm. First Semester Examination (2023-24)

Subject: Human Anatomy and Physiology-I
 Time: Three hours

Date: 11-03-24

Paper Code: BP101T
 Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper)

Note: This paper has 3 sections A, B and C. Attempt all the three sections.

Section A: Answer all the questions;

Section B: Answer any 2 out of 3 questions;

Section C: Answer any 7 out of 9 questions.

Abbreviations Used:

CO-Course Outcome, PO- Program Outcome, BTL- Bloom Taxonomy Level: BT level 1-Remember; BT level 2-Understand; BT level 3- Apply; BT level 4- Analyze; BT level 5- Evaluate; BT level 6- Create.

SECTION A

Very Short Type Questions (Attempt all)

2x10=20 Marks

Q. No	Question	BTL	CO	PO
1.	Write the location and function of the simple keratinized squamous epithelium.	1	1	1
2.	Define ball and socket joint. Give examples.	2	3	1,9
3	What are sutures? Name the suture between the two parietal bones.	2	1	1
4	Compare erythrocytes, leukocytes, and thrombocytes with respect to number, and life span.	3	3	1,9
5	Write the function of lymph.	1	1	1
6	What is cardiac output? How it is calculated.	2	2	1,3
7	Draw ECG and label deflection waves.	3	3	1,9
8	Why are mitochondria referred to as "power houses" of the cell?	4	1	1
9	What do you understand by cell junctions?	1	1	1
10	Which cranial nerves are involved in olfactory transduction?	2	3	1,9

SECTION B

Long type Questions (Attempt any 2 out of 3)

10x2=20 Marks

Q. No	Question	BTL	CO	PO
1.	Classify epithelial tissue. Describe the characteristic feature, location and function of each type.	3	5	1,2,6
2	Explain the process of hemopoiesis. Also explain the disorders related to blood.	5	2	1,3
3	What is cardiac cycle? Describe various events of the cardiac cycle.	3	5	1, 2,11

SECTION C

Short-type Questions. (Attempt any 7 out of 9)

5x7=35 Marks

Q. No	Question	BTL	CO	PO
1.	Give an account of types of intracellular signaling.	2	2	1,3
2.	Classify connective tissue. Mention characteristic features of cartilage.	2	1	1
3.	Draw a well-labelled diagram of lymph node.	3	3	1,9
4.	Draw comparisons between sympathetic and parasympathetic nervous system.	4	5	1,2,6
5.	Elucidate the mechanism of coagulation with the help of flow chart.	4	1	1
6.	Describe the constituents of blood and their function	2	2	1,3
7.	Classify the axial skeleton system. Give anatomical description of sternum.	3	3	1,9
8.	What are the different layers of epidermis. Support your answer with a labelled diagram.	4	1	1
9.	Discuss the anatomical description of ear.	2	4	1,6