

Name:	
Enrolment No:	

**UPES**  
**End Semester Examination, December 2024**

**Course: Human Anatomy and Physiology-I** **Semester: I**  
**Program: B. Pharm** **Duration: 03 Hours**  
**Course Code: BP101 T** **Max. Marks: 75**

**Instructions: Read the question paper carefully. Attempt the questions as mentioned.**

**SECTION A**  
**(20Qx1M=20 Marks)**

S. No.	Multiple Choice Questions/objective/one line	Marks	COs
Q 1	Define Anatomy.	1	CO1
Q 2	Systemic and Regional are the two approaches of physiology (True/False)	1	CO1
Q 3	Blood is a type of ..... tissue.	1	CO1
Q 4	Mention one important role of cell junctions.	1	CO1
Q 5	Collagen is a type of ..... tissue.	1	CO1
Q 6	Write about exercise physiology.	1	CO1
Q 7	Study of Immunology comes under the category of anatomy. (True/False)	1	CO1
Q 8	Enlist the no. of bones present in axial skeleton.	1	CO1
Q 9	Differentiate artery and veins.	1	CO1
Q 10	Write the normal range of heart beat in adult human.	1	CO1
Q 11	Define neuromuscular junction.	1	CO1
Q 12	Mention the name of chambers present in human heart.	1	CO1
Q 13	Sympathetic nervous system is part of CNS. (True/False)	1	CO2
Q 14	Differentiate cell and tissue.	1	CO2
Q 15	Differentiate median and paramedian plane in human body.	1	CO2
Q 16	Write the name of outer layer of the skin.	1	CO2
Q 17	Systolic blood pressure is higher than diastolic blood pressure. (True/False)	1	CO2
Q 18	Mention the name of any two lymphatic organs.	1	CO2
Q 19	Write any important function of nose.	1	CO2
Q 20	Give the no. of cranial nerves involved in parasympathetic nervous system.	1	CO3

**SECTION B (20 Marks)**  
**(2Qx10M=20 Marks)**

**Attempt 2 Question out of 3**

<b>Q 1</b>	Explain each mechanism of transport across cell membrane.	<b>10</b>	<b>CO2</b>
<b>Q 2</b>	Describe in detail the process of hemoglobin formation.	<b>10</b>	<b>CO2</b>
<b>Q 3</b>	Classify peripheral nervous system. Explain its effects on various organs.	<b>10</b>	<b>CO4</b>
<b>SECTION-C (35 Marks)</b> <b>(7Qx5M=35 Marks)</b>			
<b>Attempt 7 Question out of 9</b>			
<b>Q 1</b>	Describe the pathways of cell communications.	<b>5</b>	<b>CO1</b>
<b>Q 2</b>	Explain the anatomy of heart.	<b>5</b>	<b>CO1</b>
<b>Q 3</b>	Express briefly the anatomy and functions of nose.	<b>5</b>	<b>CO2</b>
<b>Q 4</b>	Write a note on – a) Blood circulation b) Cardiac cycle	<b>5</b>	<b>CO2</b>
<b>Q 5</b>	Classify different types of joints based on functions.	<b>5</b>	<b>CO3</b>
<b>Q 6</b>	Depict in detail about basic life processes in human being.	<b>5</b>	<b>CO3</b>
<b>Q 7</b>	Explain location, structure and functions of epithelial tissues.	<b>5</b>	<b>CO3</b>
<b>Q 8</b>	Write about physiology of muscle contraction.	<b>5</b>	<b>CO4</b>
<b>Q 9</b>	Describe the role of ANS in regulation of heart physiology.	<b>5</b>	<b>CO5</b>