

Total No. of Questions: 3

Total No. of Printed Pages: 2



Enrollment No.....

Faculty of Pharmacy

End Sem Examination Dec 2024

PY3CO01 Human Anatomy & Physiology -I

Programme: B. Pharm.

Branch/Specialisation: Pharmacy

Maximum Marks: 75

Duration: 3 Hrs.

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.

		Marks	BL	PO	CO	PSO
Q.1	i. What is synaptic signalling?	2	1	1	1	
	ii. Define gross anatomy.	2	1	1	1	
	iii. Give two examples of bones present in axial skeleton system.	2	1	1	2	
	iv. Write any two functions of vertebral column.	2	1	1	2	
	v. Define diapesis.	2	1	1	3	
	vi. Define intracellular fluid.	2	1	1	3	
	vii. What is primary neurotransmitter of parasympathetic nervous system?	2	1	1	4	
	viii. Name the neurotransmitters of sympathetic nervous system.	2	1	1	4	
	ix. Name the node controls the heartbeat. Write down function of fossa ovalis.	2	1	1	5	
	x. Write any four functions of artery.	2	1	1	5	
Q.2	Attempt any two:					
	i. Explain structure, location and function of connective and nervous tissue.	10	2	1	1	
	ii. Illustrate the bones of vertebral column with diagram.	10	2	1	2	
	iii. (a) Describe mitosis with labelled diagram. (b) Classify joints with examples.	5	2	1	1	
		5	2	1	2	

[2]

Q.3 Attempt any seven: Two questions from each section is compulsory.

Section - A

- i. What is difference between innate and adaptive immune system. Explain three basic process of homeostasis with diagram. **5** 2 1 3
- ii. Define lymph. Discuss functions and composition of lymph with diagram. **5** 2 1 3
- iii. Define erythropoiesis and thrombopoiesis. Explain the steps involved in both the process. **5** 2 1 3

Section - B

- iv. What are the functions of parasympathetic nervous system. Draw flow chart showing working of nervous system. **5** 2 1 4
- v. Explain the structure and function of ear. **5** 2 1 4
- vi. Write a note on origin and functions of spinal nerves. **5** 2 1 4

Section - C

- vii. Draw labelled diagram of heart. Explain its anatomy. **5** 2 1 5
- viii. Write exhaustive note on any two cardiac disorders. **5** 2 1 5
- ix. Discuss about conduction system of heart. **5** 2 1 5

Marking Scheme
PY3CO01 (T) Human Anatomy & Physiology -I (T)

[2]		
Q.1	i) Synaptic signalling- 2 marks ii) Definition- 2marks iii) Two examples- 1mark each iv) Two functions- 1mark each v) Definition- 2 marks vi) Definition- 2 mark. vii) Name- 2 marks viii) Name -1 mark each ix) SA node- 1 mark Function- 1 mark x) Four functions – 0.5 mark each	2 2 2 2 2 2 2 2 2 2 2
Q.2	Attempt any two: i. Structure, location- 3 marks each (nervous and connective) Function – 2 marks each ii. Names and explanation bones of vertebral column-6 marks Diagram- 4 marks iii. Description- 3 marks labelled diagram-2 marks Classification – 3 marks Examples- 2 marks	10 10 5 5
Q.3	Attempt any seven: Two questions from each section is compulsory.	
	Section - A	
	i. Difference- 2 marks Process- 3 marks ii. Definition – 1 mark Functions and composition- 1 mark each Diagram- 2 marks iii. Definition of erythropoiesis and thrombopoiesis – 1mark each Steps- 3 marks	5 5 5
	Section - B	
	iv. Functions- 2 marks Flow chart- 3 marks	5
	v. Structure- 3 marks Functions- 2 marks vi. Origin – 3 marks Functions- 2 marks	5
	Section - C	
	vii. Diagram – 2 marks Anatomy explanation- 3 marks viii. Two Cardiac disorders- 2.5 marks each ix. Conduction system explanation- 5 marks	5
