

Total No. of Questions: 3

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Enrollment No.....



Faculty of Pharmacy
End Sem Examination Dec 2024

PY3CO01 Human Anatomy & Physiology -I

Programme: B. Pharm.

Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

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 diapedesis.	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.	5	2	1	1	
	(b) Classify joints with examples.	5	2	1	2	

[2]

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

Section - A

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|------|--|---|---|---|---|
| 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)

Q.1	i)	Synaptic signalling- 2 marks	2
	ii)	Definition- 2marks	2
	iii)	Two examples- 1mark each	2
	iv)	Two functions- 1mark each	2
	v)	Definition- 2 marks	2
	vi)	Definition- 2 mark.	2
	vii)	Name- 2 marks	2
	viii)	Name -1 mark each	2
	ix)	SA node- 1 mark	2
		Function- 1 mark	
	x)	Four functions – 0.5 mark each	2

Q.2	Attempt any two:		
	i.	Structure, location- 3 marks each (nervous and connective) Function – 2 marks each	10
	ii.	Names and explanation bones of vertebral column-6 marks Diagram- 4 marks	10
	iii.	Description- 3 marks labelled diagram-2 marks Classification – 3 marks Examples- 2 marks	5 5

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

Section - A

i.	Difference- 2 marks Process- 3 marks	5
ii.	Definition – 1 mark Functions and composition- 1 mark each Diagram- 2 marks	5
iii.	Definition of erythropoiesis and thrombopoiesis – 1mark each Steps- 3 marks	5

Section - B

iv.	Functions- 2 marks Flow chart- 3 marks	5
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v.	Structure- 3 marks Functions- 2 marks	5
vi.	Origin – 3 marks Functions- 2 marks	5

Section - C

vii.	Diagram – 2 marks Anatomy explanation- 3 marks	5
viii.	Two Cardiac disorders- 2.5 marks each	5
ix.	Conduction system explanation- 5 marks	5
