

Total No. of Questions: 6

Total No. of Printed Pages: 2

Enrollment No.....



Faculty of Pharmacy
End Sem (Odd) Examination Dec-2019
PY3CO01 Human Anatomy and Physiology- I
Programme: B. Pharma Branch/Specialisation: Pharmacy

Duration: 3 Hrs.

Maximum Marks: 75

Note: All questions are compulsory. Internal choices, if any, are indicated.

- Q.1
- Striated muscle is also called as _____ 2
 - What are neurons? 2
 - Write any four major functions served by human skeleton. 2
 - _____ cartilage is present at the joints of long bones. 2
 - Erythrocyte is another name for _____ 2
 - Define Lymph nodes. 2
 - What are the components of peripheral nervous system? 2
 - Give names of different pairs of spinal nerves. 2
 - Write the flow of deoxygenated blood in heart. 2
 - The semilunar valves prevent blood from flowing backward into _____ 2

- Q.2
- Attempt any two:
- Classify connective tissue. What is the difference between epithelial and connective tissue? 10
 - Describe organization and physiology of skeletal muscle contraction 10
 - (a) Draw a neat diagram of cell and explain the function of its various component. 5
(b) Write note on synovial joint and fluid. 5

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

Section - A

- Give the composition and function of blood. 5
- What is lymph. Describe structure and function of spleen. 5

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- Enlist various clotting factors. Explain mechanism of blood coagulation. 5

Section - B

- Differentiate between sympathetic and parasympathetic nervous system. 5
- Write a detailed note on Ear. 5
- Describe origin and functions of spinal and cranial nerves. 5

Section - C

- Describe the various events of cardiac cycle. 5
- Write note on disorders of heart. 5
- What is electrocardiogram? Describe the normal electrocardiogram with its significance. 5

P.T.O.

Marking Scheme

PY3CO01 Human Anatomy and Physiology- I

Q.1	i.	Striated muscle is also called as <u>skeletal</u> .		2
	ii.	Definition of neurons		2
	iii.	Any four major functions served by human skeleton.		2
		0.5 mark for each function	(0.5 mark *4)	
	iv.	<u>Hyaline</u> cartilage is present at the joints of long bones.		2
	v.	Erythrocyte is another name for <u>Red Blood Cell</u>		2
	vi.	Definition of Lymph nodes.		2
	vii.	Components of peripheral nervous system		2
	viii.	Names of different pairs of spinal nerves.		2
	ix.	Flow of deoxygenated blood in heart.		2
Q.2	x.	The semilunar valves prevent blood from flowing backward into <u>the ventricles</u> .		2
		Attempt any two:		
	i.	Classification of connective tissue	5 marks	10
		Difference between epithelial and connective tissue		
		1 mark for each difference (1 mark * 5)	5 marks	
	ii.	Organization of skeletal muscle	2 marks	10
		With diagram	2 marks	
		Physiology of skeletal muscle contraction	6 marks	
	iii.	(a) Diagram of cell	2 marks	5
		Function of its various component	3 marks	
Q.3		(b) Synovial joint	4 marks	5
		Synovial fluid	1 mark	
		Attempt any seven: Two questions from each section is compulsory.		
		Section - A		
	i.	Composition of blood	2.5 marks	5
		Function of blood		
		0.5 mark for each function (0.5 mark * 5)	2.5 marks	
	ii.	Definition of lymph	1 mark	5
		Structure of spleen with diagram	2 marks	
		Function of spleen		
		0.5 mark for each function (0.5 mark * 4)	2 marks	

iii.	Name of ten clotting factors	2 marks	5
	Mechanism of blood coagulation.	3 marks	
	Section - B		
iv.	Difference b/w sympathetic and parasympathetic nervous system		5
	1 mark for each difference	(1 mark * 5)	
v.	Diagram of Ear	2 marks	5
	Explanation and functions	3 marks	
vi.	Origin and functions of spinal nerves	2.5 marks	5
	Origin and functions of cranial nerves	2.5 marks	
	Section - C		
vii.	Diagram of cardiac cycle	2 marks	5
	Description of events	3 marks	
viii.	Any five disorders of heart		5
	1 mark for each disorder	(1 mark * 5)	
ix.	Definition of electrocardiogram	1 mark	5
	Description of normal electrocardiogram	3 marks	
	Its significance	1 mark	
