## Q.P. Code :07532

[ Marks:80]

	Please check whether you have got the right question paper.	
	N.B: 1. All questions are compulsory.	
	2. Figures to the right indicate full marks.	
	Draw neat, labeled diagrams wherever necessary.	
a) Answer t	he following.	16
i.	Justify –blood as a connective tissue	Y Show
ii.	Justify – Pseudostratified epithelium as epithelial tissue	
iii.	Justify – Bloodgroup AB is universal system.	57
iv.	Justify – Skin as a part of immune system.	
٧.	State the difference between primary and secondary lymphatic organs.	
vi.	Define –negative feedback mechanism.	
vii.	Enlist the components of Blood plasma.	
viii.	Enlist types of muscular tissue	
		04
••		
iii.		l
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iv.	Name two types of adaptive immunity.	
a) Answer <b>a</b>	i <b>ny two</b> of the following.	08
i.	Write a note on composition of blood and its functions.	
ii. 🚕 Ś	Describe the process blood coagulation.	
iii.	Discuss erythroblastosis fetails.	
b) Write a s	hort note on <b>any one</b> of the following	04
	Leucopenia and Leukocytosis	
	Anemia and its types	
a) Answer <b>any two</b> of the following		08
	Give detailed account of skeletal muscle contraction	
	Write a note on energy metabolism in skeletal muscle.	
	Describe sliding filament mechanism of skeletal muscle contraction	
h) Answer	invone of the following	04
	(6) At 18 8 8 8 10 10 10 1	<b>0</b> 4
	Draw a neat, labeled diagram showing organization of skeletal muscle	
	i. ii. iii. iv. v. vi. vii. viii. b) Answer t i. ii. iii. iv. a) Answer a i. iii. iii. b) Write a s i. iii. iii.	2. Figures to the right indicate full marks. 3. Draw neat, labeled diagrams wherever necessary.  a) Answer the following. i. Justify – blood as a connective tissue ii. Justify – Pseudostratified epithelium as epithelial tissue iii. Justify – Bloodgroup AB is universal system. iv. Justify – Skin as a part of immune system. v. State the difference between primary and secondary lymphatic organs. vi. Define – negative feedback mechanism. vii. Enlist the components of Blood plasma. viii. Enlist types of muscular tissue  b) Answer the following: i. A healthy adult has about ———million red blood cells per microliter of blood. ii. Leukemia is represented by abnormal production of ———— iii. A ————Is a region where communication occurs between two neurons, or between a neuron and a target cell. iv. Name two types of adaptive immunity.  a) Answer any two of the following. i. Write a note on composition of blood and its functions. ii. Describe the process blood coagulation. iii. Discuss erythroblastosis fetails.  b) Write a short note on any one of the following i. Leucopenia and Leukocytosis ii. Anemia and its types  a) Answer any two of the following i. Give detailed account of skeletal muscle contraction ii. Write a note on energy metabolism in skeletal muscle. iii. Describe sliding filament mechanism of skeletal muscle contraction b) Answer any one of the following i. Write a note on neuromuscular transmission

[Time: Three Hours]

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Q.4	a)	Answer <b>a</b>	<b>ny two</b> of the following.	04
		i.	Draw a neat, labeled diagram of spleen. Discuss functions of spleen.	
		ii.	Discuss anatomy and functions of lymph node.	
	b)	Write a sl	nort note on <b>any one</b> of the following	04
		i.	Myasthenia Gravis	0000
		ii.	AIDS	
	c)	Answer <b>a</b>	ny one of the following	04
		i.	Describe bone as a connective tissue, its classification and function.	
		ii.	Draw a neat labeled diagram of a neuron.	20,
Q.5	a)	Answer <b>a</b>	ny one of the following	04
		i.	Discuss fluid mosaic model of plasma membrane	
		ii.	Explain active transport mechanism	04
	b)	Answer <b>a</b>	ny one of the following	04
		i.	What are different types of muscle contraction? Explain with the help of examples	
		ii.	Write a note on functions and properties of muscles.	
	- 1	<b>A</b>		04
	C)		ny one of the following.	
		i. 	Describe the mechanisms involved in migration of WBC	
		ii.	Write a note on process of chronic inflammation.	
Q.6	a)	Answer <b>a</b>	ny two of the following	08
		i.	Write a short note on synthesis of hemoglobin	
		ii. 🔊	Explain the process erythropoiesis in detail.	
		iii.	Explain different types of hypersensitivity reactions.	
		13/12/25		04
	b)	Answer a	ny one of the following	
			Describe the process of chemotaxis and its importance.	
	0	8,8,70,4	Discuss different collectionally in impring recogned	