Q.P. Code :07532

[Marks:80]

		Please check whether you have got the right question paper.	
		N.B: 1. All questions are compulsory.	
		Figures to the right indicate full marks.	
		Draw neat, labeled diagrams wherever necessary.	
Q.1	a) Answert	he following.	16
٦	i.	Justify –blood as a connective tissue	_0
	ii.	Justify – Pseudostratified epithelium as epithelial tissue	
	iii.	Justify – Bloodgroup AB is universal system.	
	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
	b) Answer t	he following :	
	i.	A healthy adult has aboutmillion red blood cells per microliter of blood.	
	ii.	Leukemia is represented by abnormal production of	
	iii.	AIs a region where communication occurs between two neurons, or between a	
		neuron and a target cell.	
	iv.	Name two types of adaptive immunity.	
Q.2	a) Answer a	ny two of the following.	08
	i.	Write a note on composition of blood and its functions.	
	ii.	Describe the process blood coagulation.	
	iii.	Discuss erythroblastosis fetails.	
	b) Write a s	hort note on any one of the following	04
	i.	Leucopenia and Leukocytosis	
	ii.	Anemia and its types	
Q.3	a) Answer a	ny two of the following	08
	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 a	nny one of the following	04
	i.	Write a note on neuromuscular transmission	
	ii.	Draw a neat, labeled diagram showing organization of skeletal muscle	

[Time: Three Hours]

Q.P. Code :07532

Q.4	a)	Answer an	y two 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)	b) Write a short note on any one of the following		
		i.	Myasthenia Gravis	
		ii.	AIDS	
	c)	Answer an	y 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.	
Q.5	a)	Answer an	y one of the following	04
		i.	Discuss fluid mosaic model of plasma membrane	
		ii.	Explain active transport mechanism	04
	b)	b) Answer any one of the following		
		i.	What are different types of muscle contraction? Explain with the help of examples	
		ii.	Write a note on functions and properties of muscles.	
	c)	Answer an	y one of the following.	04
		i.	Describe the mechanisms involved in migration of WBC	
		ii.	Write a note on process of chronic inflammation.	
Q.6	a)	a) Answer any two of the following		
		i.	Write a short note on synthesis of hemoglobin	
		ii.	Explain the process erythropoiesis in detail.	
		iii.	Explain different types of hypersensitivity reactions.	
				04
	b)		y one of the following	
		i. 	Describe the process of chemotaxis and its importance.	
		ii.	Discuss different cells involve in immune response.	