## Q.P. Code :07530

[ Marks:80]

		N.B	1. 2. 3.	All questions are compulsory. Figures to the right indicate full marks. Draw neat, labeled diagrams wherever necessary.	
Q.1	a)	Answer the	followir	ng:-	16
		i)	Justify-	Cartilage as a connective tissue	S. S.
		ii)	Justify-	Plasma membrane is semi-permeable membrane	
		iii)	Justify-	Thymus as a primary lymphatic organ.	
		iv)	Justify-	blood O is universal donor.	
		v)	Define:	transudate, exudates	
		vi)	Define:	contractility and excitability of muscle Tissue	
		vii)	Define	homeostasis	
		viii)	Enlist a	ny four components of second line defense of non-specific immunity.	
	b)	Answer the	followir	ng:-	04
		i)	Define-	interstitial fluid	
		ii)	Enlist a	ny two conditions in which High Count of Neutrophils is seen.	
		iii)		type of muscle is voluntary and striated.	
		iv)	Enlist th	ne types of cell junctions.	
Q.2	a)	Answer <b>any</b>	the following	08	
		i)	Write s	hort notes on Lifecycle of RBC	
		ii)	Describ	e the process of Thrombopoiesis and Platelet plug formation.	
		iii)	Explain	principle of blood grouping in detail.	
	b)	Write a short note on <b>Any TWO</b> of the following			
		(i)	Polycyt	hemia and thrombocytopenia	
	5	7 -ii)	Sickle c	ell anemia and pernicious anemia	
Q.3	a)	Answer <b>An</b> y	<b>, TWO</b> o	f the following	08
70,	50 E		Give de	tailed account of muscle proteins	
	37. 5	(ii)	Explain	microscopic anatomy of skeletal muscle.	
1977 1987	300	iii)	With th	ne help of a neat, labeled diagrams explain anatomy and physiology of smooth muscle	
	b)	o) Answer <b>Any ONE</b> of the following			
		Silver Silver	Describ	e sliding filament mechanism of skeletal muscle contraction	
		ii)	With th	e help of a neat, labeled diagram explain Neuromuscular Junction in detail.	
Q.4	a)	Answer the	e followi	ng S	08
500		(i)	Draw a	neat, labeled diagram of Lymph node.	
85. 45. St. 45.	100 M		Describ	e the organization of lymphatic vessels and explain the formation and flow of lymph	

[Time: Three Hours]

Please check whether you have got the right question paper.

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	b)	Write a short note on <b>ONE</b> of the following			
		i)	Describe Salient features of epithelial tissue and give detail classification		
		ii)	Describe the various fibers and their role in connective tissue and enlist the cells of connective	43	
			tissue.		
Q.5	a)	Answer <b>A</b>	ny ONE of the following	04	
		i)	Draw a neat, labeled diagram of plasma membrane.		
		ii)	Explain the principle and factors affecting diffusion.	75	
	b)	Answer <b>A</b>	ny ONE of the following	04	
		i)	Describe muscle metabolism in detail		
		ii)	Write a note on Excitation – contraction coupling		
	c)	Answer <b>A</b>	ny ONE of the following	04	
		i)	Describe the mechanisms involved in vasodilatation in inflammation.		
		ii)	Write a short note on chemical mediators of acute inflammation.		
Q.6	a)	Answer <b>A</b>	ny TWO of the following	08	
		i)	Write a short note on cell mediated immunity		
		ii)	Explain the process of blood coagulation in detail		
		iii)	Describe the process of phagocytosis in detail		
	b)	Answer <b>A</b>	ny ONE of the following	04	
		i)	Describe the outcomes/fate of acute inflammation		
		ii)	Describe role of different cells in chronic inflammation.		
			04, 51 - 24 ×0 - C1 ×0 - N - X1 ×0, ×1 × V × V × V × V × V × V × V × V × V		