Q.P. Code: 21724

 $(2\frac{1}{2} \text{ Hours})$ [Total Marks: 70 N.B.: (1) All questions are compulsory. (2) Figures to the right indicate full marks. (3) Draw neat labelled diagrams wherever necessary... 1. (a) Answer the following: Give structure and functions of straitified connective tissue. Explain diffusion as a transport process. (ii) Give composition of Lymph. (iii) Write a note of thalassemia. (iv) Explain wheel & flare response by histamine. (v) Give sailient features of cardias muscles. (vi) 1. (b) Answer the following: 3 (i) Define Homeostasis Enlist factors affecting oxygen carring capacity of haemoglobin. (ii) Enlist various functions of muscle tissue. (iii) 2. (a) Answer any two of the following: 8 Explain the life cycle of RBCs in detail. (a) Explain the mechanish of blood clotting in detail. (b) Write a note on types of immunities and explain T-cell mediated immunity in detail. (b) Write short note on any one. 3 Write a note on Leucopoiesis Write a note on Polycythemia 3. (a) Answer any two of the following: 8 Explain in detail mechanism of contraction of cardiac muscles. (i) Compare and contrast between smooth muscles and skeletal muscles. (ii) Write anote on Energy metabolism in muscle contraction. (iii) 3. (b) Answer any one of the following: 3 (i) Differentiate between isotonic & isometric type of muscle contraction. Give a detailed account on role of Troponin Tropomysin.

4.	(a)	Answer	any one of the following:	4
	. /	(i)	Draw a neat labeled diagram of lymph node and write a note ont	
		. (-)	formation of lymph.	
		(ii)	Write a note on: (a) Spleen (b) Thymus	
4.	(b)		nort note on any one.	-4
	(0)	(i)	Rheumatoid arthritis	
		(ii)	Immediate type of hyperoensitivity reacitons	
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4	(c)	Answer	any one of the following:	3
		(i)	Draw a neat labelled diagram of Neuron and give functions of	
		(*)	Neurons.	
		(ii)	Discuss about bone as a connective tissue	
		(11)	Disouss about bone as a connective histae	
5.	(a)	Answer	any one of the following:	4
	(4)	(i)	Describe the structure and function of plasma-membrane.	
		(ii)	Write a note one carrier mediated transport of solute across	
		(11)	membrane.	
5.	(b)	Answer	any one of the following:	4
		(i)	Explain the role of calcium & acetyl-holine in contraction of skeltal	
		(1)	muscles.	
		(ii)	Draw a neat labelled diagram of a sarcomere. Describe its various	
		(11)	zones and bands.	
5.	(c)	Answer	any one of the following	3
	(-)	(i)	Discuss chemotaxis during inflammation	
		(ii)	Describe the process of tissue repair	
6.	(a)	Answer	any two of the following:	8
		(i)	Write a note on composition of blood and give functions of blood in	
		2.5	brief.	
		(ii)	Explain ABO blood group system and write a note on	
			enythroblastosis fetalis.	
		(iii)	Enlist different types of anaemias and explain pathophysiology of	
80			arly two types of anaemias in brief.	
6.	(b)	Answer	any one of the following:	3
		(i)	Compare transudate & exudate.	
		(ii)	Discuss the pheomenon of plasma extravasation in inflammation.	
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