	(Time: 3 Hours)	[Total marks: 70]
N.B:	(1) All questions are Compulsory(2) Answer all sub questions together.(3) Draw neat labeled diagram wherever necessary.	
1. (a) i. ii. iii. iv. v. vi.	Answer the following Give location and function of Areolar connective tissue What is pinocytosis Enlist functions of lymphatic system. Enlist the cardinal signs of Inflammation Write the classification of muscles. What is erythroblastosis fetalis	12
(b) A i. ii.	Answer the following Deficiency of which nutrients cause megaloblastic anemia. Holding a book with stretched hand in steady position is _ contraction.	type of
iii.	Enlist various cellular organelles. Answer any TWO of the following.	8
i. ii. iii.	Write a short note on Life Cycle of RBC. Classify White Blood Cells (WBCs). Name the respective conditionand Eosinophil count increases. Explain in brief Thrombocytopenia and leucopenia.	
(b) A: i. ii.	nswer any ONE of the following. Write a note on Leukemia Explain pathophysiology of megaloblastic and pernicious anemia.	3
3. (a) i. ii. iii.	Answer any TWO of the following. Write a note on cardiac muscles. Describe in detail Neuromuscular Junction Distinguish between skeletal muscle and smooth muscle.	8
(b) A i. ii.	nswer any ONE of the following Draw a neat, labeled diagram showing organization of skeletal must write a note on isotonic and isometric contractions.	scle.
i.o I	Answer any ONE of the following. Discuss anatomy and functions of spleen Explain the process of formation and flow of lymph.	4
i. E	nswer any ONE of the following xplain the term Auto-immune disease. Give pathophysiology of Rhet rite a note on Myasthenia Gravis.	4 umatoid arthritis.

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(c) Answer any ONE of the following			3
i.	Draw a neat labeled diagram of Stratt functions	ified squamous epithelium, discuss their	location and
ii.	Write a short note on Extracellular M	latrix of connective tissue.	
5. (a)	Answer any ONE of the following.		4
i. ii.	Write a detail account on passive trar Explain the process of osmosis.	nsport mechanism across membrane.	
(b) Ar	nswer any ONE of the following		4
	Give location and function of different	t types of muscles.	
ii.	Explain following terms		
	a. Nuromuscular Junction		
	b. Muscle tone		
(c) An	swer any ONE of the following		3
i.	Compare and Contrast between Acut	e and Chronic type of Inflammation.	DAR
ii. 1	Explain in brief the process of tissue re	pair.	
6. (a)	Answer any TWO of the following.		8
	olain terms a) Thrombocytopenia	b) Leukemia	
	c) Polycythemia vera	d) Anaemia	
ii. Exp	plain the process of synthesis of RBCs.		
iii. Enl	ist functions of various components of	blood.	
(b) Ar	nswer any ONE of the following		3
	Discuss various vascular changes durin	g inflammation.	
	Define inflammation, phagocytosis, an	ASI ANY ANY ANY ANY AND	
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