	(3 Hours)	[Total marks: 70]
<b>N.B.</b> : (1)	All questions are compulsory.	
(2)	Answer all sub questions together.	
(3)	Draw neat labeled diagram wherever necessary.	
1. (a) Answe	r the following:	
i)	Give functions of connective tissue	
ii)	Define: Leucopoiesis	
iii)	Give functions of plasma membrane.	
iv)	Explain diffusion transport.	
v)	Enlist any four types of anemia.	
vi)	Comment on wheel and flare response by histamine.	
(b) Define :		3
i)	Endocytosis	
ii)	Active transport	
iii)	Osmosis	
2. (a) Answe	r any <b>TWO</b> of the following:	8
i)	Explain synthesis of hemoglobin with its structure.	
ii)	Explain types of immunity.	
iii)	Enlist types of WBC. Explain in brief agranulocyte.	
(b) Answe	r any <b>ONE</b> of the following:	3
i)	Write a note on Erythropoiesis.	
ii)	Write pathophysiology of Grave's diseases.	
3. (a) Answe	r any <b>TWO</b> of the following:	8
i)	Explain mechanism of contraction of skeletal muscle.	Ū
ii)	Draw diagram of sarcomere.	
iii)	Explain role of acetylcholine in contraction of skeletal muscl	e.
(h) Answei	r any <b>ONE</b> of the following:	3
(b) 1 inswer	Give classification of Lymphatic organ. Explain spleen.	3
ii)	Write a note on cardiac muscle.	
4 (a) Answe	r any <b>TWO</b> of the following:	8
i)	Explain process of formation of lymph.	· ·
ii)	Explain process of phagocytosis and pinocytosis.	
iii)	Write a note on thalessamia.	
(b) Answe	er any <b>ONE</b> of the following:	3
(i)	Differentiate between skeletal and smooth muscles	
ii)	Write a note on hypersensitivity reaction.	

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5. (a) Answe	r any TWO of the following:
i)	Draw diagram of fluid mosaic design of plasma membrane and write its functions.
ii)	Draw diagram of neuromuscular junction. Enlist hormones of neuromuscular
	junction.
iii)	Write a note on inflammation.
(b) Answer	any <b>ONE</b> of the following:
i)	Explain process of tissue repair.
ii)	Write a note on passive transport process.
6. (a) Answe	r any TWO of the following:
i)	Write note on process of clotting of blood.
ii)	Explain life cycle of RBC.
iii)	Define blood and write its composition and functions.
<b>4</b> > 4	
(b) Answei	any ONE of the following 3
i)	Explain process of cell mediated immunity.
ii)	Write a note on role of prostaglandins in inflammation
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