		2016-2017	SEM-I.	Reg
		SEM- ONE - APP	APP-	T
		SEM- ONE - III		
			second	Hai
			QP Code: 773	700
		(3 Hours)	[Total Marks :	80
		. (5 Hours)	1 Total Marks .	00
N. I	B.: (1)	All the questions are compulsory.		
	(2)	Figures to the right indicate full marks.		
	(3)	Draw neat, labelled diagrams wherever nec	essary.	
1. (a)	Answer	the following :-		16
1. (a)	(i)	Justify bone as a connective tissue.		070
	(ii)	Enlist the functions of plasma membrane.		
	(iii)	Give functions of lymphatic system,	0.0	
	(iv)	Explain how biconcave shape of RBCs	help in Oxygen	
		transport.	-3	
	(v)	Enlist the stimuli for acute inflammation.		
	(vi)	Give features and location of cardiac musc	ele.	
	(vii)	Describe positive feedback system.		
	(viii)	Justify skin as a component of innate imm	unity.	
(b)	(i)	Excessive loss of RBCs from large wound anemia.	is leads to	4
	(ii)	Enlist the basic life processes.		
	(iii)	Describe the role of fibringen.		
	(iv)	type of muscle is non-striated &	k involuntory.	
2/15	7	and two of the following :		
2. (a)		any two of the following: Describe the process of hemoglobin synth	necie	0
	(i)	Describe the blood coagulation pathways.	icsis.	
	(ii)	Classify leukocytes. Give detail account of	f Neutrophile	
(b)	(iii)	short note on any one of the following:	i recutopinis.	4
(0)	(i)	Anemia		-
	(ii)	Hemolytic disease of Newborn (HDN)		
3. (a)	Answer	any two of the following:-		8
	(i)		-	
	(ii)	Describe the events of sliding filament me in skeletal muscle contraction.	chanism involved	
	(iii)		muscle.	
	()	1		

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		(b)	Write a short note on any one of the following :-	4
			 (i) Give detail account of muscle proteins. (ii) With the help of neat, labelled diagram explain anatomy of 	
			smooth muscle.	
	4.	(a)	Answer any one of the following :-	4
			(i) Draw a neat, labelled diagram of thymus.	
			(ii) Explain how lymphatic organs are classified. Give detail	
			account of primary lymphatic organs.	
		(b)	Write a short note on any one of the following:-	4
			(i) Myasthenia Gravis	
			(ii) AIDS	
		(c)	Answer any one of the following:-	4
1			(i) Write a short note on Extra Cellular Matrix (ECM).	
-			(ii) Draw a neat, labelled diagram of Neuron and discuss the	
			general functions of nervous tissue.	
	5.	(a)	Answer any one of the following:	4
			(i) Write a short note on active transport mechanism with	
			suitable example.	
			(ii) Give detail account of structure of plasma membrane.	
		(b)	Answer any one of the following:	4
			 Compare and contrast isotonic and isometric contractions. 	
			(ii) Discuss Neuromuscular junction with the help of a neat, labelled diagram.	
		(c)	Answer any one of the following:-	4
			 Compare and contrast acute and chronic inflammation. 	
			(ii) Describe the process of angiogenesis.	
9	6.	(a)	Answer any two of the following:-	8
		()	(i) Distinguish between innate and adaptive immunity.	
			(ii) Discuss the process of enythropoesis in detail.	
			(iii) Explain the role of T-cells, B-cells and MHC in immunity.	
		(b)	Answer any one of the following:-	4
			(i) Explain the role of any two of the following in inflammation:-	
			(a) Histamine	
			(b) Bradykinin	
			(c) Prostaglandin	
	.3		(ii) Discuss the process of chemotaxis.	