Q.P. Code : 19315

		[Time: 2:30 Hours] [Marks	: 75]
	N.B:	 Please check whether you have got the right question paper. All questions are compulsory. All questions carry equal marks. Draw a neat labelled diagram wherever necessary. 	
01 1	Civo an os	cample of any one of the following:	01
Q.1. a.	i.	Intermediate filament	UI
	ii.	Actin capping protein	
b.	-	ny one term	02
	i. ii.	Protofilament Nucleation	
	11.	Nucleation	
C.	Comment	on any two of the following :	12
-	i.	MTOCs and their role in the formation of microtubules	
	ii.	Basic structure and assembly of intermediate filaments	
	iii.	Structure of myosin and its role in muscle contractility	
	iv.	Functions of cytoskeleton	
Q.2. a.	Define an	y three of the following :	03
C	i.	Membrane fluidity	
	ii.	Transmembrane proteins	
	iii.	GAGs	
	iv.	Connexin	
	V.	Facilitated diffusion	
	vi.	Pumps	
b.	. Discus an	y two the following :	12
	i.	Types of membrane lipids	
	ii.	Symport with the help of an example	
	iii.	Structure and role of Desmosomes	
	iv.	Cell coat and its functions	
0.3. a.	Do as dire	ected any three of the following :	03
	i.	Name one toxin mediated disease of <i>S.aureus</i> .	
	ii.	Explain A/E histopathology.	
	iii.	Fill in the blank - HIV contains enzyme which helps in converting	
		RNA to DNA.	
	iv.	Name one media used to culture <i>M. tuberculosis.</i>	
	V.	Write True or False: Widal test can be performed in the first week of illness to	
		detect typhoid fever.	
	vi.	Give one example of an antimalarial drug.	

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		i. ii. iii. iv.	any two of the following : Explain the pathogenicity of HIV. Diagrammatically explain the life cycle <i>of Plasmodium</i> species. Explain the morphology, cultural and biochemical characteristics of <i>S.typhi</i> . Elaborate on the chemotherapy for TB management.	12
Q.4. a.		Explain i.	any three of the following : Burst size	03
		ii.	Plus strand RNA	
		iii.	Concatemers	
		iv.	Prophage	
		v.	MOI	
		vi.	ICTV	
	b.	Give an account of any two of the following :		
		i.	Assay methods to enumerate viruses	
		ii.	Plant virus reproduction	
		iii.	General structure of a virus	
		iv.	Life cycle of T even phage	
Q.5.		Write short notes on any three of the following :		15
		i.	Cutaneous mycoses	
		ii.	Enterohaemorrhagic <i>E.coil</i>	
		iii.	Cultivation of viruses	
		iv.	Methods of purification of viruses	
		v.	Microvilli	
		vi.	Properties of microfilaments	
