[Time: 2:30 Hours]

Q.P. Code: 19315

[Marks: 75]

		N.B:	Please check whether you have got the right question paper. 1. All questions are compulsory. 2. All questions carry equal marks. 3. Draw a neat labelled diagram wherever necessary.	
Q.1.	a.	Give an ex	ample of any one of the following: Intermediate filament	01
		ii.	Actin capping protein	
	b.	Explain a ı	ny one term	02
		i.	Protofilament	
		ii.	Nucleation	
	c.		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
		i.	Membrane fluidity	
		ii.	Transmembrane proteins	
		iii.	GAGs	
		iv. S	Connexin	
		V	Facilitated diffusion	
		vi.	Pumps	
		-9/2/2 - 1/3 (A		40
	D.	Discus an	y two the following:	12
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Types of membrane lipids	
V.	9		Symport with the help of an example	
25	1		Structure and role of Desmosomes	
		iv.	Cell coat and its functions	
Q.3.	a.	Do as dire	cted any three of the following:	03
			Name one toxin mediated disease of <i>S.aureus</i> .	
		ii.	Explain A/E histopathology.	
34/4		iii.	Fill in the blank - HIV contains enzyme which helps in converting	
			RNA to DNA.	
	100	iy.	Name one media used to culture <i>M. tuberculosis</i> .	
OK KE	36	V. V.	Write True or False: Widal test can be performed in the first week of illness to	
13.0	OK	\$ \\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	detect typhoid fever.	
	7.0	vi.	Give one example of an antimalarial drug.	

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	b.	Attempt any two of the following:		~ 12	
		i.	Explain the pathogenicity of HIV.		
		ii.	Diagrammatically explain the life cycle of Plasmodium species.		
		iii.	Explain the morphology, cultural and biochemical characteristics of <i>S.typhi.</i>		
		iv.	Elaborate on the chemotherapy for TB management.		
Q.4.	a.	Explain	any three of the following:	03	
		i.	Burst size		
		ii.	Plus strand RNA	S.	
		iii.	Concatemers		
		iv.	Prophage		
		v.	MOI		
		vi.	ICTV		
	b.	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:			
•		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		
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