B.Sc. (Part-I) Semester-II Examination MICROBIOLOGY

Microbiology, Biochemistry, Biostatistics and Computers

Time	e : T	hree		ars]	y, Diostati	[Maximum Marks	s: 80		
Note :— (1)		(1)	All	questions are compulsory.					
				w well labelled diagrams who	erever nece	ssarv.			
1.	(A)		l in the blanks:						
	()			full form of LHT system i	S .		2		
				teins are the polymers of					
				Measurement of characteristics is called as					
				long form of RAM is _					
	(B)			correct option :			2		
		(i)		phur containing amino acids	S				
				Cysteine	(b)	Aspertic acid			
			(c)	Tyrosine	(d)	Tryptophan.			
		(ii)	Ioni	ising radiation removers	·				
			(a)	Protons	(b)	Electrons			
			(c)	Waves	(d)	Ions.			
		(iii)	UR	L means					
			(a)	Uniform resource locator	(b)	Uniform Reservoir locator			
			(c)	Universal Resource locato	r (d)	None of these.			
		(iv)	BC	G is					
			(a)	Mixed Vaccine	(b)	Live Vaccine			
			(c)	Killed Vaccine	(d)	None of these			
	(C) An		swer in one sentence :				4		
		(i)	Def	fine Biopesticides.					
		(ii)	Wh	no discovered DNA structure	e?				
		(iii)	Def	fine interferon					
	(iv) Define Median.								
2.	Des	cribe	Lyt	ic cycle. How it differs from	m lysogeny	y?	12		
					OR				
	Give the LHT system of classification of viruses. Describe symmetry of viruses.						12		
3.	(a) Describe in brief moist heat sterilization.					4			
	(b) Describe in brief Fumigation.					1	4		
	(c) Write in detail principle and working of autoclave.								
					OR				

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	(d)	Differentiate between sterilization and disinfection.	4
	(e)	What is the role of radiation in microbial control?	4
	(f)	Describe in brief Gascous sterilization.	4
4.	(a)	Explain in brief biodegradation.	4
	(b)	Describe in brief biofertilizers.	4
	(c)	Enlist the name of four micro-organisms involved in pharmaceutical industries	along
		with their microbial products.	4
		OR	
	(d)	Describe in brief biopesticides.	4
	(e)	What is vaccine? Explain with suitable example role of microorganism in production	luction
		of vaccine.	4
	(f)	Explain in detail bioleaching.	4
5.	(a)	Write any six properties of DNA.	4
	(b)	Explain primary str. of protein.	4
	(c)	Describe the structure of t-RNA	4
		OR	
	(d)	Explain in brief polysaccharide.	4
	(e)	Differentiate between DNA and RNA.	4
	(f)	With suitable example explain phospholipids.	
6.	Exp	plain in detail measures of central tendency.	12
		OR	
	Des	scribe in detail graphical presentation of data.	12
7.	(a)	Write any six uses of Internet.	4
	(b)	Explain primary memory of computer.	4
	(c)	Explain input devices with examples.	4
		OR	
	(d)	Write any six applications of computers.	4
	(e)	Explain secondary memory of computer.	4
	(f)	Explain output devices with examples.	4