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B.Sc. (Part—I) Semester—II Examination 2S: MICROBIOLOGY

(Microbiology, Biochemistry, Biostatistics and Computers)

Tin	Time : Three Hours] [Max			imum Marks : 80	
	Not	te:—(1) All questions are compulsor	y.		
		(2) Draw well labelled diagrams	wherever necessary.		
1.	(a)				
		(i) The long form of CPU is			
		(ii) Tobacco Mosaic Virus was disco	overed by		
		(iii) The structure of DNA was given	by		
		(iv) Average obtained arithmetically i	s called as	2	
	(b) Choose the correct option :				
		(i) BCG vaccine is used to prevent :			
		(a) Smallpox	(b) Polio		
		(c) Leprosy	(d) Tuberculosis		
		(ii) Glucose is example of:			
		(a) Disaccharide	(b) Polysaccharide		
		(c) Monosaccharide	(d) Oligosaccharide		
		(iii) Input device is :			
		(a) Printer	(b) Mouse		
		(c) Speaker	(d) Monitor		
		(iv) Drugs that prevent the formation	of the bacterial cell wall are:		
		(a) Aminoglycosides	(b) Tetracyclines		
		(c) Betalactams	(d) Quinolines	2	
	(c)	Answer in one sentence each:			
		(i) Define viruses.			
		(ii) What is disinfection?			
		(iii) Define mode.			
		(iv) Define antibiotic.		4	
2.	(a)	Describe in brief Binal Symmetry of v	iruses.	4	
	(b)	Explain the embryonated hen's egg me	thod for cultivation of viruses.	4	
	(c)	Describe lysogeny.		4	
			OR		
	(d)	Describe lytic cycle of replication.		4	
	(e)	Define virion and bacteriophage.		4	
	(f)	Give the classification of DNA viruses		4	



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OR

		nat is chemotherapeutic agents? Describe any two chemotherapeutic agents used in tra diseases.	eatment 12
1.	(a)	Describe in brief bioleaching.	4
	(b)	Name four microorganisms involved in food industries along with their microbial po	roducts.
	(c)	Write the importance of biofertilizer.	4
		OR	
	(d)	Describe in brief biofertilizer.	4
	(e)	Define Vaccine. Explain the role of microorganisms in Vaccine production with example.	suitable 4
	(f)	Define Antibiotics. Explain the types of antibiotics.	4
5.	Des	scribe in detail classification of carbohydrates with example.	12
		OR	
	Des	scribe in brief classification of protein and explain elementary concept of protein stru	ucture. 12
6.	(a)	Write the uses of biostatistics.	4
	(b)	Explain mode with suitable example.	4
	(c)	Write the applications of chi-square (χ^7) test.	4
		OR	
	(d)	Explain median with suitable example.	4
	(c)	Explain student 't'-test.	4
	(\hat{f})	Explain in brief frequency distribution.	4
7.	(a)	Describe in brief primary memory of computer.	4
	(b)	Explain output devices of computer.	4
	(c)	Use of internet.	4
		OR	
	(d)	Differentiate between computer hardware and software.	4
	(e)	Describe in brief MS-Word.	4
	(f)	What are input devices? Write its examples.	4