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

(Microbiology, Biochemistry, Biostatistics and Computers)

Time : Three Hours]						[Maximum Marks:	80
	Note	e :—	(1)	All questions are compulsory.			
			(2)	Draw well labelled diagrams who	erever ne	cessary.	
1.	(a)	Fill	in the	e blanks :			
		(i)	The	long form of CPU is			
		(ii) Tobacco Mosaic Virus was discovered by					
		(iii) The structure of DNA was given by(iv) Average obtained arithmetically is called as					
		(iv)	·	2			
	(b)	Cho					
		(i)					
			(a)	Smallpox	(b)	Polio	
			(c)	Leprosy	(d)	Tuberculosis	
		(ii)	Glu	cose is example of:			
			(a)	Disaccharide	(b)	Polysaccharide	
			(c)	Monosaccharide	(d)	Oligosaccharide	
		(iii)	Inpu	nt device is :			
			(a)	Printer	(b)	Mouse	
			(c)	Speaker	(d)	Monitor	
		(iv)	ial cell wall are:				
			(a)	Aminoglycosides	(b)	Tetracyclines	
			(c)	Betalactams	(d)	Quinolines	2
	(c)	Answer in one sentence each :					
		(i)	Defi	ine viruses.			
		(ii)	Wha	at is disinfection?			
		(iii)	Defi	ine mode.			
		(iv)	Defi	ine antibiotic.			4
2. (a) Describe in brief Binal Symmetry of viruses.							4
	(b) Explain the embryonated hen's egg method for cultivation of viruses.						4
	(c)	(c) Describe lysogeny.					
OR							
	(d)						
	(e)						4
	(f)						4



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OR

		at is chemotherapeutic agents? Describe any two chemotherapeutic agents used in treatm liseases.	nent 12			
4.	(a)	Describe in brief bioleaching.	4			
	(b)	Name four microorganisms involved in food industries along with their microbial products				
	(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 suita example.	able 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 structu	re. 12			
6.	(a)	Write the uses of biostatistics.	4			
	(b)	Explain mode with suitable example.	4			
	(c)	Write the applications of chi-square (χ^2) test.	4			
		OR				
	(d)	Explain median with suitable example.	4			
	(e)	Explain student 't'-test.	4			
	(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			