AS-1391

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

(Microbiology, Biochemistry, Biostatistics and Computers)

Time: Ti	hree ]	Hour	rs]			[Maximum Marks: 80
Note :-	(1)	All	questions are compulse	ory.		
	(2)	Dra	w well labelled diagram	ms whe	rever necessary.	
1. (A)	Fill	in th	e blanks :			
	(i)	Am	ino Acids are joined to			
	(ii)	Aut				
	(iii)	Мо	nitor is device.			
			roup of study elements	s is call	ed	2
(B)			the correct option:			
	(i)	Pen	icillin is an			
		(a)	Biofertilizer	(b)	Antibiotic	
		(c)	Vaccine	(d)	Output devices	
	(ii)	Me	an, mode and median	are		
		(a)			Biopesticides	
		(c)	Central tendency	, -	Log values	
	(iii)	T4	phage is an example o	. ,		
	()	(a)	Bacteria		Virus	4
		(c)	Rickettsia	(d)	Lipid	
	(iv)	Sta	rch is			
		(a)	Protein	(b)	DNA	
		(c)	Carbohydrate	(d)	Fungi	. 2
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	(C)	Answer in ONE sentence:	
		(i) What is CPU?	
		(ii) Give one example of non-symbiotic biofertilizers.	
		(iii) Define "Disinfection".	
		(iv) Name any two methods of cultivation of viruses.	4
2.	Des	cribe in detail structure and morphology of viruses.	12
		OR	
	Des	cribe lytic cycle. How it differs from lysogeny?	12
3.	(A)	What is Penicillin? Give its mode of action.	4
	(B)	Describe the process of microbial control using radiation.	4
	(C)	Define the terms-sterilization and antiseptic with example.	4
		or	
	(D)	Describe in brief control of micro-organisms by high temperature.	4
	(E)	What is action of halogens on bacteria?	4
	(F)	Describe the process of microbial control using osmotic pressure.	4
4.	(A)	What is biopesticide? Give any two examples.	4
	(B)	Define vaccines with suitable examples.	4
,	(C)	Describe bioleaching in brief.	4
		OR	
	(D)	Describe in brief biofertilizers and its types.	4
	(E)	What do you mean by Biodegradation? Give the role of bacteria in this process.	4
	(F)	Describe the applied aspects of micro-organisms in industry.	4
5.	Des	cribe in detail structure of DNA.	12
		OR	
	Des	cribe in detail classification of Carbohydrates.	12
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6.	(A)	Describe Chi-square test in brief with suitable example.	4
	(B)	Describe the applications of biostatistics.	4
	(C)	Describe in brief biological data presentation.	4
		OR	
	(D)	Describe mean and give its properties.	4
	(E)	What is mode? Explain with example.	4
	(F)	Describe in brief tabulation of data.	4
7.	(A)	Describe in brief primary memory in computer.	4
	(B)	Give the applications of internet.	4
	(C)	What is software?	4
		OR	
	(D)	Describe in brief input devices of computer.	4
	(E)	Describe in brief the process of document editing in MS-Word.	4
	(F)	What is e-mail? Give its uses.	4

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