	(a)	Draw well labelled diagram of DNA.	4	
	(e)	Describe the classification of proteins.	.4	AP-43
-	(f)	What are monosaccharides? Give any two exar	nples.	B.Sc. (Part-I) Semester-II Examination
6	. (a)	What is biostatistics? Write its applications.	4	2S: MICROBIOLOGY
	(b)	W. E. G.	4	(Microbiology, Biochemistry, Biostatistics and
	(c)	How chi square test is applied for biological of	lata ?	Computers)
			4	
	,*·	OR		Time: Three Hours] [Maximum Marks: 80
	(d)	What is mode? Explain with example.	4	
	(e)	Briefly describe graphical distribution of data.	4	Note:—(1) ALL the questions are compulsory.
.2	(f)	What are the different models of data presentat Describe any model useful for biological samp	ion? oles.	(2) Draw well labelled diagrams whereve necessary.
~	4.5		4	1. (A) Fill in the blanks:
7.	(a)	Enlist different components of computer syswith their functions.	stem 4	(i) phage replicates by lysogenic cycle.
:#:	(b)	Describe the applications of internet.	4	(ii) sugar is present in RNA. (iii) Monitor is an device
	(c)	Diffeentiate between RAM and ROM.	4	device.
	,	OR	•	(iv) is an equipment used for dry heat sterilization.
	(d)	Describe in brief Input devices of computer.	4	(B) Choose the correct option for the following:
•	(e)	What is CPU? Describe its role in computer syst	em.	(i) system is used for classification of
			4	viruses.
	(f)	Describe briefly the features of MS-Word.	4	(a) LHT
				(b) LST
	,			(c) Bergey's Manual
UW	0-4240	36		(d) None of the above
TET 18 18 18	- nen	~	725	UWO-42406 1 (Contd.)

((ii) Autocl	lave is used for st	eriliza	tion of		3.	(a)	Describe con	ntrol of microorga	nisms by osi	notic	
	(a) E	nzymes	(b)	Serum *	* *			pressure.		-	4	
	(c) N	lutrient media	(d)	All of the abo	ve		(b)	Describe c	ontrol of micro	organisms ı	ısing	
	(iii)	is used as biope	_	-		radiations.		- ,	4			
		Bacillus thuringiens				(c)	Differentiate	e between Dry He	at and Moist	Heat		
ō,	(b) E	Bacillus anthracis						sterilization.		÷.	4	
	(c) E	E. coli							OR			
	(d). F	Rhizobium		,			(d)	Define the	terms : antiseptic	and sanitizer	with	
	(iv) Glyco	iv) Glycosidic bond is present in						examples of	each.		4	
	(a) I	Proteins	(b)	Carbohydrate	S		(e)	What are an	tibiotics? Write th	e mode of act	ion of	
	(c) 1	Nucleic acids	(d)	None of the	ibove	*	·. ,≜	penicillin.			4	
	(C) Answ	ver in ONE sente	nce:		,2	•	(f)	Describe the	e principle and wor	king of autoc	lave. 4	
	(7)	What are biofertil What is google?		?		· · · · · · · · · · · · · · · · · · ·			rides? Give their adv		nemical 12	
	(iii) Continuous cell lines are derived from which						•	OR				
-	(iv)	cells? Write the names DNA.	of pu	irine bases pre	sent in			le of microorg	adation and biolea	o processes.	12	
2.	Describe in detail lysogenic cycle with well labelled				abelled	5	5. (a	b) Draw the structures of purines. 4 What are polysaccharides? Give two examples. 4				
	diagrams.						(b	*			iples.4	
		OR	L			*	(c) Describe ir	brief classification	of lipids.	4	
	Describe	in detail the struc	ture o	f viruses.	12			,	OR			
UW	0—42406	2	-	ਹੋ			UWO	42406	3 .		(Contd.)	