NA-504

Seat No.____

First Year B. Sc. Examination

April/May - 2003

Biotechnology Vocational: Paper - I

Time: 3 Hours] [Total Marks: 70

Instructions: (1) Question numbers as it is in question paper should be correctly shown in margin.

- (2) Marks are designated on the **right** hand side.
- 1 (a) What is Computer? Discuss why it is very popular 7 today.
 - (b) Name five input media and explain their features. 7

OR

- 1 (a) What is high level languages, low level languages? 7 and what is assembly language?
 - (b) Explain the features of the first generation of **4** computer.
 - (c) Explain how computers can be used to control processes in Biotechnology.
- 2 (a) The following is the results of measurement of suger level among 40 students. Find out the mean and standard deviation of distribution:

Suger level (mg%)	No. of students
80-90	1
90-100	3
100-110	5
110-120	25
120-130	3
130-140	1
140–150	1
150-160	1

1	(b)	What is random sampling ? How do you setup a random sample to find out the mean Glucose level in the population of Ahmedabad city.	8	
OR				
2	(a)	What is biostatastic? Write a note on its use/Application.	7	
	(b)	Explain the following:	7	
		(a) Mode (b) Median		
		(c) p th percentile (d) Histogram.		
3	(a)	Discuss about Enzyme substrate interactions.	7	
	(b)		7	
	of vaporization. How does it help in Biological system?			
OR				
3	(a)	What are signal molecules? Discuss hormone as signal molecule.	7	
	(b)		7	
		of transport.		
4	(a)	Write a note on light reception in human.		
	(b)	Explain with example "Electricity as a potential signal"	7	
OR				
4	(a) State and Derive Lambert-Beer's law. Write its limitations.		8	
	(b)	Write principle and working of a G. M. Counter.	6	
5	Writ	te short notes : (any three) 14		
	(1)	EGC		
	(2)	E.E.G.		
	(3)	ATP cycles		
	(4)	Watson and Crick Model of DNA		
	(5)	Ionisation Chamber.		
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