Exam.Code: 0905 Sub. Code: 6195

2123

B.E. (Biotechnology), First Semester ESBT-101: Basic Biology

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Section.

x-x-x

1.	a.	Define biotechnology.	
	b.	What is evolution?	
	c. d.	What is the role of lysosomes?	
		What happens during metaphase stage of mitosis?	
0.00	e. f.	really one narmfill micro-organism	
		Name anyone Non-covalent hand found in proteins	
	g. h.	being carbonyurate?	
	i.	Name any one water insoluble vitamin.	
		what are enzymes?	
	j.	Name any one application of biotechnology in food industry. (1 ea	ch)
		SECTION-A	
2.	a.	What is the scope of biotechnology? Explain briefly.	
	b.	Explain the theories of evolution. Also illustrate organic evolution.	(4)
		of evolution. Also mustrate organic evolution.	(6)
3.	a.	Give the difference of the beneficial micro-organisms.	
	b.	Give the differences between prokaryotic and eukaryotic cell.	(5)
			(5)
4.	a.	Explain the structure and function of mitochondria with the help of a schematic diagram Explain the different stages of mitosis, with the help of a schematic diagram	
	b.	Explain the different stages of mitosis, with the help of a schematic diagram.	(5)
		and the fleip of a schematic diagram.	(5)
		SECTION-B	
5.	a.	Write a short note on bioremediation.	
	b.	Describe the basis of classification of enzymes.	(5)
		and dusis of classification of enzymes.	(5)
			` '
6.	a.	Describe the applications of biotechnology in the medical field.	
	b.	Illustrate the types of bonds and interactive forces found in any one of the nucleic acids.	(5)
		the interactive forces found in any one of the nucleic acids.	(5)
7.	a.	Write a short note on proteins.	
	b.	Write a short note on porphyrins.	(5)
			(5)