Exam.Code:0001 Sub. Code: 0065

1128

B.A./B.Sc. (General) First Semester Bio-Technology

BIOT-Elect-Sem-I-T: Introduction to Biotechnology

Time allowed: 3 Hours

Max. Marks: 67

NOTE: Attempt <u>five</u> questions in all, including Question No. IX (Unit-III) which is compulsory and selecting two questions each from Unit I - II.

x-x-x

	X-X-X	
	<u>UNIT –I</u>	
I.	a) Discuss the role of Eschenchia coli as model bacterium in Biotechnolog	gy,
	 b) Discuss the features of Drosophila melanogaster that make it an model organism. 	appropriate (7,6)
II.	a) Explain the applications of white Biotechnology.	
	b) Discuss the status of Biotechnology in developed countries.	(6,7)
III.	a) Discuss the role of Biotechnology in medicine.	
	b) Explain objectives of any one centre for Biotechnology in India.	(7,6)
IV.	a) Discuss the applications of viruses in Biotechnology	
	b) Describe the role of for ligases in recombinant DNA technology.	(7,6)
	<u>UNIT – II</u>	
V.	a) Discuss the role of sonication technique in Biotechnology.	
	b) Describe principle and working of phase contrast microscope.	(7,6)
VI.	a) Discuss the technique of agarose gel electrophoresis.	
	b) Describe principle of ion exchange chromatography.	(7,6)
VII.	a) Discuss the different types of input devices in computer.	
	b) Explain RAM and its role in computers.	(7,6)
III.	a) Describe multiplication theorem and its application.	
	b) Discuss different types of data.	(7,6)
		P.T.O.

UNIT-III

IX.	Attempt the following:-	

- a) Define model organism.
- b) Define green Biotechnology.
- c) What is GLP?
- d) Define biosafety.
- e) What is median?
- f) What is ROM? (6x2)
- g) What is the principle of bright field microscopy? (3)

Y-Y-Y