Exam.Code:0033 Sub. Code: 0964

2012

B.Sc. (Hons.) Biotechnology First Semester

BIOT-106-T: Introduction to Biotechnology

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit. x-x-x I. Answer the following:- a) What is Red biotechnology? b) What is wet heat sterilization? (2)	,
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a) What is some thouse 0	
c) What is gene therapy? (2)	
d) What is Bioterrorism? (2)	
e) Define restriction enzymes. (2)	
f) What type of ribosomes are present in prokaryots? (2)	
g) What is the role of green technology in pollution control? (3)	
<u>UNIT - I</u>	
II. Discuss the role of Biotechnology in Environment protection. (13)	
III. a) Discuss the role of Neurospora as a model organism.	
b) Discuss the applications of viruses in rDNA technology. (6,7)	
<u>UNIT - 11</u>	
IV. a) Discuss the structural features of DNA	
b) Discuss the concept of transcriptomics. (7,6)	
V. a) Discuss the properties of PUC 8.	
b) Give an overview on technique of centrifugation. (7,6)	
<u>UNIT - III</u>	
VI. Describe the role of Biotechnology in Diagnostics with suitable example. (13)	
VII. Discuss the basics of Biotechnology in fermentation process. (13)	
P.T.O.	

(2)

<u>UNIT - IV</u>

VIII. a) Discuss two methods to raise transgenic plants.
b) Discuss applications of transgenic animals. (7,6)
IX. a) Write a note on Bioterrorism.
b) Discuss social implications of Biotechnology. (7,6)

X-X-X