

Printed Pages : 2



EBT204

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID :154207

Roll No.

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B. Tech.

(SEM. II) THEORY EXAMINATION, 2014-15

INTRODUCTION TO BIOTECHNOLOGY

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.**1** Attempt any two parts of the following:- **10x2=20**

- (a) Define role of biochemical engineering, in biotechnology along with a particular case study.
- (b) How does biotechnology can improve the life of our society? Discuss.
- (c) Write short note on :
 - (i) Unit operations and unit processes
 - (ii) GMO.

2 Attempt any two parts of the following:- **10x2=20**

- (a) Describe the chemical structure of glucose in pyranose and furanose forms.
- (b) What are nucleotides? Draw their chemical structures.
- (c) What are enzymes? Describe their classification.

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[Contd...

3 Attempt any two parts of the following : **10x2=20**

- (a) What is the basic unit of life? Support your answer.
- (b) How do microbes help in biotechnology? Explain with examples.
- (c) Write short note on classification of microbes.

4 Attempt any two parts of the following : **10x2=20**

- (a) Give the historical overview of bioinformatics along with current applications.
- (b) What are types of biological databases? Explain any one in detail.
- (c) Write short note on ExPASy.

5 Attempt any two parts of the following : **10x2=20**

- (a) What are implications of human genome project? Discuss.
- (b) Define the prokaryotic gene structural elements. How could you predict them?
- (c) Write short note on:
 - (i) SNPs and disease susceptibility
 - (ii) Comparative genomics.
