

**(BC 8325 B2)**  
**B.Sc Degree (CBCS) Examinations**  
**AUGUST - 2021**  
**EXAMINATION AT THE END OF SEMESTER- VI**  
**PART-II**  
**BIOTECHNOLOGY**

TIME : Three hours

Maximum : 60 Marks

**Part – A**

Answer any FIVE of the following. Each question carries Four marks

5 x 4m = 20m

1. Ti plasmids
2. Transduction
3. cDNA library
4. Linkers&Adaptors
5. pBR 322
6. Production of Insulin by rDNA technology
7. Enzymes as Biosensors
8. Protoplast culture

**Part – B**

Answer ALL the following questions. Each question carries Eight marks

5 x 8m = 40m

9. a). Explain any two methods of gene transfer methods.  
OR  
b). Describe different methods for identification & selection of Transformed cells.
10. a). Mention chemical & physical methods of DNA introduction into cells.  
OR  
b). Give an account on Southern blotting technique.
11. a). Explain how  $\lambda$  – phage acts as a vector  
OR  
b). Define Restriction enzymes. Describe types, properties & nomenclature of Restriction Enzymes.
12. a). Explain about recombinant vaccines  
OR  
b). Discuss the Principle & Significance of Yeast two hybrid systems
13. a). Write any eight applications of transgenic plants & animals  
OR  
b). Discuss production of antibiotics by fermentation technology.

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