

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

1	0	0	8	4
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Exam. Code :

5	0	0	1
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**Bachelor of Arts (FYUP) 1st Semester
(2124)**

BIO-TECHNOLOGY

Paper : Foundations of Biotechnology BTEIDC

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :— Attempt **five** questions in all. Question no. 1 is compulsory.
Select **two** questions from each unit.

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|----|-----------------------------------|---|
| 1. | (a) What is green Biotechnology ? | 3 |
| | (b) What is a phage vector ? | 3 |
| | (c) What are model organisms ? | 3 |
| | (d) What is a restriction site ? | 2 |
| | (e) What is transgenesis ? | 2 |

UNIT—I

- | | | |
|----|---|---|
| 2. | Discuss the role of <i>E.Coli</i> in Biotechnological research. | 8 |
| 3. | Discuss the advent of White Biotechnology and its applications. | 8 |
| 4. | Discuss the role of <i>Drosophila melanogaster</i> in genetic analysis. | 8 |
| 5. | Describe the applications of Biotechnology in Health and Medicine. | 8 |

UNIT—II

6. Discuss how viruses play a pivotal role in Biotechnology research. 8
7. Discuss the role of restriction enzymes as tools for rDNA technology. 8
8. Discuss the technique and role of gene therapy. 8
9. Discuss methods of raising transgenic animals. 8