

Roll No.

Exam Code : M-21

Subject Code—52484

B. Sc. EXAMINATION

(Batch 2017) (Re-appear)

(First Semester)

BIOTECHNOLOGY

Paper I

Introduction to Biotechnology

Time : 3 Hours

Maximum Marks : 40

Note : Q. No. 1 is compulsory. Attempt *four* other questions by selecting *two* questions from each of the Units I and II. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following : $2 \times 4 = 8$

- (a) Animal Tissue Culture
- (b) Proteome

- (c) Application of Biotechnology in Food
- (d) Ethics in Biotechnology.

Unit I

- 2. Discuss briefly the following with suitable examples :
 - (a) Fermentation Technology
 - (b) Genetic Engineering. $4 \times 2 = 8$
- 3. Write short notes on the following with suitable examples : $4 \times 2 = 8$
 - (a) Recombinant DNA Technology
 - (b) Embryo Transfer Technique.
- 4. Discuss briefly the following with suitable examples : $4 \times 2 = 8$
 - (a) History of Genetic Manipulations
 - (b) Monoclonal Antibodies.

Unit II

- 5. Describe briefly the following with suitable examples : $4 \times 2 = 8$
 - (a) Application of Biotechnology in Animal/Veterinary Sciences
 - (b) Application of Biotechnology in Pharma Industry.

- 6. Write short notes on the following with suitable examples : $4 \times 2 = 8$
 - (a) Role of Biotechnology in Waste Water Treatment
 - (b) Intellectual Property Rights.
- 7. Write short notes on the following with suitable examples : $4 \times 2 = 8$
 - (a) Risk Assessment in Biotechnology
 - (b) Biotechnology for developing world.