

THREE YEAR BSCS., (CBCS) DEGREE EXAMINATION, APRIL 2018

SIXTH SEMESTER

Part II — BioTechnology

Elective — Plant and Animal BioTechnology

Time : 3 Hours

Max. Marks : 75

PART - A

Answer any FIVE of the following questions.

(Marks : 5 × 5 marks = 25 marks)

1. Tissue culture laboratory facilities
2. Suspension cultures
3. Production of haploids
4. Somatic hybridization
5. Primary culture
6. Concept of gene therapy
7. Transgenic animals
8. Bio safety issues

PART - B

Answer the following questions. Each question carries equal marks.

(Marks : 5 × 10 marks = 50 marks)

UNIT - I

9. Describe the composition and preparation of plant tissue culture media.

Or

10. Explain the initiation and maintenance of callus.

UNIT - II

11. Write about the Ti plasmid organization.

Or

12. What are transgenic plants? Explain about Bt cotton.

UNIT – III

13. Discuss about different types of animal tissue culture medias.

Or

14. Explain the cell lines and maintenance of cell lines in the laboratory.

UNIT – IV

15. Write about the production of Insulin and vaccines by rDNA technology.

Or

16. Explain the steps involved in Invitro fertilization (IVF) in humans.

UNIT – V

17. Explain about intellectual property rights.

Or

18. Describe about society and ethical aspects of Biotechnology.
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