

45084

M.Sc. DEGREE EXAMINATION, MARCH/APRIL 2019.

FOURTH SEMESTER

Biotechnology

Paper IV — BIOETHICS AND BIOSAFETY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each questions carries 3 marks.

Each answer should not exceed 1 page.

1. Indian Biodiversity act.
2. Trade marks.
3. Prenatal diagnosis.
4. Biological weapons.
5. TRIPS.
6. Procedure for filing Patents.
7. GM foods.
8. Biosafety in handling radioactive compounds.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each questions carries 15 marks.

Each answer should not exceed 6 pages.

9. Give outlines of Intellectual Property Rights.

Or

10. Discuss Indian patent act and their revised versions.
11. Write in detail about Bioremediation.

Or

12. Is gene therapy an alternative to existing medical therapies-Discuss with example.

13. Write short notes:
- (a) WTO
 - (b) R-DNA research.

Or

14. Write about the procedures of filing patents, give some examples for patents.
15. Discuss the role played by biotechnology in environmental safety.

Or

16. Briefly discuss about genetically engineered organisms? Give examples.

