PG Even Semester Exam, 2024

Biotechnology

2nd Semester

COURSE NO. BTYVBC - 556

[Value-Based Course in Biotechnology]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, taking one from each Unit

UNIT-I

1. Define biodiversity. Discuss the factors responsible for the creation of biodiversity. Write a note on the importance of biodiversity. 2+6+6=14
2. Write short notes on: 7x2=14
   a. Causes of biodiversity loss
   b. Biodiversity of Assam

UNIT-II

3. What is transgenic plant? Write the application of transgenic technology for basic and applied research in plant and animal systems. 2+12=14
4. Discuss the ethical issues related to transgenic research. Write a note on the threats to transgenic research. 7+7=14

UNIT-III

5. Write short notes on: 3.5x4=14
   a. Gender
   b Sex
   c. Patriarchy
   d. Gender violence
6. Write a note on the role of family and workplace as gender equal institutions. 14

UNIT-IV

7. Discuss about the ethical, legal and social issues of genetic testing. 14
8. Discuss the salient ethical principles of research involving animal and human subjects. 14

UNIT-V

9. What is biosafety? Discuss all levels of biosafety with examples and precautions taken at each level. 3+8+3=14
10. Write brief notes on : 7x2=14
    a. Good laboratory practices
    b. Importance of biosafety in Biotechnology.

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