PG Even Semester Exam, May 2025

Biotechnology

2nd Semester

COURSE NO. BTYCC - 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. Write a note on the organization of biodiversity. Discuss the sources of biodiversity. 6+8=14

2. Discuss the factors responsible for the loss of biodiversity. Write a note on the biodiversity of Assam. 10+4=14

UNIT-II

3. Write about the different methods of gene transfer in plants and animals. Add a note on advantages and disadvantages of different methods of gene transfer. 10+4=14

4. Write a note on threats and ethical issues related to transgenic research. 14

UNIT-III

5. a. Differentiate between sex and gender. Comment on concepts of sex and gender as constructs in identifying human identity. 2+6=8

   b. Chalk out the key features of patriarchy. 6

6. Write a brief account on feminist history. Mention key global feminist movements. 8+6=14

UNIT-IV

7. Why does clinical research involving human participants have to be regulated? Discuss the general principles guiding these regulations. 4+10=14

8. Discuss the following with respect to the use of animals for health research:

   a. 4R's 4x2.5=10

   b. ARRIVE guidelines

UNIT-V

9. a. What are risk group agents? Define all biosafety laboratory and associated risk group agents. 7

   b. Write a note on BSL 2 laboratory. 7

10. What are the advantages of biosafety cabinet? Describe class- III biosafety cabinets. 5+9=14

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