



RAN-2003001105020006

B. Sc. (Biotech.) (Sem. - V) Examination October - 2025

BT-16 : Bioethics, Biosafety and IPR

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks.
- (3) Draw neat and labelled diagrams wherever necessary.

Seat No.:

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Student's Signature

Q. 1. Answer in short (Any Four)

(08)

- a. Expand the term BSL.
- b. List any two biological hazardous wastes.
- c. Enlist types of IPR.
- d. Why was the Human Genome Project important?
- e. Copyright.

Q. 2. Attempt Any Two:

(14)

- a. List and explain the major applications of bioethics.
- b. Demonstrate the role of biosafety in handling genetically modified organisms (GMOs) in agriculture.
- c. Describe the Biosafety levels to be followed for working with animals.

Q. 3. Explain in detail Any Two:

(14)

- a. Discuss the concept of containment and its types with examples.
- b. Write about immunization and first aid for biotech laboratory worker.
- c. Give examples of different organ transplants and discuss its ethical implications.

Q. 4. Attempt Any Two of the following:

(14)

- a. Define Intellectual Property Rights. Discuss their importance in science and technology.
- b. Give details about patent database: USPTO and EPO.
- c. What is PVP? Mention the farmer's right associated with it.