



RAN - 2003001105020006

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**M. Sc. (Biotechnology) (Sem. - V) Examination March - 2023**

**BT-16 : Bioethics, Biosafety and IPR**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

(1) નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:  
☛ **M. Sc. (Biotechnology) (Sem. - V)**

Name of the Subject :  
☛ **BT-16 : Bioethics, Biosafety and IPR**

Subject Code No.: **2003001105020006**

Seat No.:

Student's Signature

- (2) Figures to the right indicate full marks.  
(3) Draw neat and labelled diagrams wherever necessary.

**Q-1: Define the terms: (Any Four) (8)**

- (a) Bioethics  
(b) Geographical indications  
(c) Eugenics  
(d) Biohazard  
(e) Autograft

**Q-2: Attempt Any Two: (14)**

- (a) Give an ELSI account for drug testing on human volunteers.  
(b) Discuss the applications of bioethics and biosafety.  
(c) Describe Biosafety levels to be followed for working with micro-organisms.

**Q-3: Explain in detail. (Any Two) (14)**

- (a) Give examples of different organ transplants and discuss the ethical implications.
- (b) Describe the ethical concerns raised by GM foods and crops.
- (c) Explain types of IPR and give specific examples of each IPR category.

**Q-4: Attempt Any Two of the following: (14)**

- (a) Explain the handling and disposal of biohazardous waste.
  - (b) Explain risk assessment and its types.
  - (c) Write a short note on international framework for IP protection.
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