

8073

4

(i) Patent

(ii) Copyright

(iii) Trademark

(iv) Trade Secret

6. (a) Discuss the Patent Cooperation Treaty (PCT) and its benefits for international biotech filings. (5)

(b) Differentiate between the following : (2×2=4)

(i) GMO and LMO

(ii) Registered and Unregistered Trademark

(c) Outline the steps in risk analysis and assessment for environmental release of GMOs. (3)

(300)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 8073

L

Unique Paper Code : 2533012006

Name of the Paper : Biosafety and Intellectual Property Rights

Name of the Course : **B.Sc. (Hons.) Microbiology**

Semester : VIII – Part-IV

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions.
3. **All** questions carry equal marks.

1. Describe the following terms (**any 6**) : (2×6=12)

(a) Patent infringement

P.T.O.

- (b) WIPO
 - (c) Prior Art
 - (d) Traditional Knowledge
 - (e) GRAS microorganisms
 - (f) IBSC
 - (g) Know-How Agreements
2. (a) Define Intellectual Property Rights. Discuss why IPR is crucial for national development? (3)
- (b) Define Risk Groups. Describe the key criteria used by WHO for classifying microorganisms into various Risk Groups. Give one example of microorganism in each group. (1+4=5)
- (c) Illustrate biosafety precautions for handling microbes BSL-3 labs. (4)
3. Write short notes on the following (any 3): (4×3=12)
- (i) TRIPS
 - (ii) Copyrights

- (iii) Industrial designs
 - (iv) Cartagena Protocol
4. (a) Outline the guidelines and precautions for radioisotope handling during laboratory operations in India. (4)
- (b) Discuss compulsory licensing under Section 84 of the Indian Patents Act. Give suitable example of compulsory licensing in Indian context. (4)
- (c) Define Geographical Indication tags with suitable examples. Discuss their benefits. (4)
5. (a) Define a patent. Describe the key patentability criteria that must be fulfilled to obtain a patent. Provide two examples each of patentable and non-patentable inventions. (1+3+2=6)
- (b) Outline the Budapest Treaty on international deposit of microorganisms. (4)
- (c) What are the durations of protection for the following IPRs? (2)