

U.G. 6th Semester Examination - 2021**MICROBIOLOGY****Course Code: BMCBDSHT6****Course Title: Biosafety and Intellectual Property Rights**

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Choose the correct alternative of the following (any **ten**): 1×10=10
- a) WIPO is headquartered at
- i) New York, USA
 - ii) Vienna, Austria
 - iii) Geneva, Switzerland
 - iv) Paris, France
- b) The works protected by copyright include
- i) Architectural works
 - ii) Literary works
 - iii) Musical works
 - iv) All of the above

- c) The term Intellectual Property Rights covers
- i) Copyrights
 - ii) Know-how
 - iii) Trade dress
 - iv) All of the above
- d) Class II BSC provide
- i) Personnel protection and sample protection
 - ii) Environmental protection
 - iii) Both (i) and (ii)
 - iv) Personnel protection and environmental protection
- e) Which of the following practices are not allowed in laboratory?
- i) Eating and drinking
 - ii) Applying cosmetics
 - iii) Handling contact lenses
 - iv) All of the above
- f) The first transgenic crop of India is _____
- i) Bt brinjal
 - ii) Bt tobacco
 - iii) Bt soyabean
 - iv) Bt cotton

- g) In India, term of copyright for an author lasts for
- The life of the author
 - The life of the author plus 60 years
 - 70 years
 - 95 years
- h) The following can be patented
- Machine
 - Process
 - Composition of matter
 - All of the above
- i) The patent granted for biological entities and products derived from them are called
- Ethics
 - Biosafety
 - Patents
 - Biopatents
- j) The Paris Convention for the protection of industrial property was adopted in the year
- 1783
 - 1883
 - 1885
 - 1993

- k) Patenting genetic resources may leads to
- Conservation of biodiversity
 - Destruction of biodiversity
 - Protection of biodiversity
 - All of the above
- l) Biopiracy means
- Illegal use of genetic material
 - Use of biopatents
 - Exploitation of indigenous knowledge without permission and compensation
 - Illegal transfer of knowledge
- m) Name the first transgenic virus resistant plant.
- Rice
 - Tomato
 - Tobacco
 - Cotton
- n) What is the reason for cultivation of GM crops by farmers?
- Increased crop yield
 - Low pesticide input costs
 - Save management time
 - All of the above

- o) Where is GI registry located in India?
 - i) Delhi
 - ii) Chennai
 - iii) Kolkata
 - iv) Mumbai

2. Answer any **five** of the following questions:

2×5=10

- a) What is the objective of Cartagena protocol on biosafety?
- b) What is primary containment?
- c) Define IPR.
- d) What are applications of transgenic bacteria?
- e) What is the difference between GI and Trademark?
- f) Give two examples of trade secret.
- g) What is a domain name?
- h) Why is good laboratory practice important?

3. Answer any **two** of the following questions:

5×2=10

- a) What are the benefits and risks associated with GM crops? 3+2

- b) Write the characteristics and application of BSC III. 3+2
- c) What is patent? What are the different types of patents? 1+4

4. Answer any **one** of the following questions:

10×1=10

- a) Describe four different types of biosafety levels along with the risks group of organisms associated with each level. Explain risk assessment. 7+3
- b) Describe Copyright and the works protected under Copyright Act. Briefly explain the procedure for obtaining copyright. What is copyright infringement? 4+5+1
- c) Write short notes on any **two**: 5+5
 - i) Geographical Indications
 - ii) Ethical concerns associated with Recombinant DNA Technology
 - iii) Indian Patent Act, 1970