

**B.Sc. MICROBIOLOGY  
SIXTH SEMESTER  
BIOSAFETY & IPR  
BMB-604**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

**( Objective )**

Time: 30 mins.

Marks: 20

*Choose the correct answer from the following:*

*1 × 20 = 20*

- Which of the following can be constituents of a design under Design Act, 2000?
  - Shape or configuration
  - Composition of lines or colors
  - Pattern or ornament
  - All of the above
- Which one of the following are Geographical Indication Tags in India?
  - Joha rice
  - Darjeeling Tea
  - Assamese Gamocha
  - Kai Chutney
- Indian Patent system has:
  - Pre-grant opposition
  - Post-grant opposition
  - Both a and b
  - None of the above
- Geneva Act of 2<sup>nd</sup> July 1999 falls under:
  - Budapest Treaty
  - Hague Agreement
  - Madrid Agreement
  - GATT
- Brene Convention protects:
  - Literary works
  - Artistic works
  - Trademarks
  - Both a and b
- .....is not a requirement for registration of a Trade Mark.
  - Capability of graphical representation
  - Capability of distinguishing goods or services from others
  - Capability of indicating connection in course of trade
  - The Trade Mark should be well known
- For filing a patent, a provisional specification does not require:
  - Claims
  - Title
  - Abstract
  - Drawings
- The General agreement on Tariffs and Trade came into force in the year:
  - 1948
  - 1950
  - 1978
  - 1990
- How long is the term of a patent?
  - 10
  - 20
  - 30
  - 40
- Which of the following is not patentable in India?
  - Software
  - Microbes
  - Biotechnological inventions
  - All of the above

11. PPE is:
  - a. Possible Protective Equipment
  - b. Personal Protection Enhancements
  - c. Personal Protective Equipment
  - d. Protective Physical Equipment
12. The acronym HEPA stands for:
  - a. High-efficiency particulate air
  - b. High-energy particles in the air
  - c. High evaluation protection
  - d. Hepatitis A
13. Biosafety is working safely with biological material or organisms with the potential to cause disease to:
  - a. Humans
  - b. Animals
  - c. Plants
  - d. All of the above
14. Biohazard waste containers should be open:
  - a. At all times
  - b. Only when actively adding waste to them
  - c. When they are placed outside for storage
  - d. None of the above
15. Golden rice is a genetically modified crop plant where the incorporated genes are meant for biosynthesis of:
  - a. Vitamin A
  - b. Vitamin C
  - c. Vitamin B
  - d. Beta carotene
16. The regulatory authority of AERB is derived from rules and notifications promulgated under:
  - a. Atomic Energy Act 1962
  - b. Environmental (Protection) Act 1986
  - c. Both a and b
  - d. None of these
17. The full form of LMO is:
  - a. Live Modified Organism
  - b. Latent Modified Organism
  - c. Living Modified Organism
  - d. Least Modified Organism
18. The AERB was established in:
  - a. November 1983
  - b. September 1983
  - c. November 1980
  - d. November 1986
19. Which is the only commercialized GM fruit?
  - a. Banana
  - b. Apple
  - c. Papaya
  - d. Plums
20. As a result of genetically modified crops, chemical used on farms has:
  - a. Gone up dramatically
  - b. Gone down dramatically
  - c. Gone up on some but no change on others
  - d. Gone down on some crops but there is little or no change on others

**( Descriptive )**

Time : 2 hr. 30 mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

- |   |          |
|---|----------|
| 1. Explain in detail the forms of Intellectual Property Rights.   | 10       |
| 2. Explain any five agreement and Treaties for IPR.   | 10       |
| 3. What are the rights and duties of a patent owner? Explain patent infringement with examples.   | 5+5=10   |
| 4. Explain Indian Patent Act 1970. Write the recent amendments of Indian Patent Act 1970.   | 5+5=10   |
| 5. What is the Atomic Energy Regulatory Board (AERB)? What are the functions of AERB?   | 5+5=10   |
| 6. What is meant by Biosafety? Explain the terms primary and secondary containment. Describe how the microbes are classified into different risk groups based on their relative risk. | 2+4+4=10 |
| 7. What is the Cartagena Protocol on Biosafety? Explain its objectives and main features.   | 5+5=10   |
| 8. Write a note on the National regulatory bodies of Biosafety.   | 10       |

= = \*\*\* = =