

B.Sc. MICROBIOLOGY
SIXTH SEMESTER (SPECIAL REPEAT)
BIOSAFETY & INTELLECTUAL PROPERTY RIGHTS
BMB – 604

(Use Separate Answer Scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

[PART-A: Objective]

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1 × 20 = 20

1. The full form of LMO is
 - a. Live Modified Organism
 - b. Latent Modified Organism
 - c. Living Modified Organism
 - d. Least Modified Organism
2. This is not a genetically modified organism (GMO)
 - a. Bt Cotton
 - b. Golden Rice
 - c. Tracy
 - d. Pomato
3. The AERB was established in
 - a. November 1983
 - b. September 1983
 - c. November 1980
 - d. November 1986
4. 'Bt' as in Bt Cotton, stands for
 - a. Genetically modified crops
 - b. Bacterium Bacillus Theogin
 - c. Bacterium Bacillus Thuringiensis
 - d. Bacteria Bacilli Thuringien
5. The acronym HEPA (as in HEPA filter) stands for
 - a. High Efficiency Particulate Air
 - b. High Energy Particles in Air
 - c. Hepatitis A
 - d. High Evaluation Protection
6. Can agricultural biotechnology reduce our dependence on petroleum:
 - a. Most of it
 - b. Some of it
 - c. No effect on petroleum use
 - d. Completely reduce
7. In which year WIPO became a specialized agency of the United Nation:
 - a. 1971
 - b. 1974
 - c. 1999
 - d. 1989
8. The headquarter of WIPO is situated in:
 - a. Stockholm
 - b. Geneva
 - c. Tokyo
 - d. Berlin
9. The protection period granted for design patent is :
 - a. 20 years
 - b. 10 years
 - c. 14 years
 - d. 15 years

10. Which of the following is most common patent used by Universities and Companies:
 - a. Utility patent
 - b. Plant patent
 - c. Design patent
 - d. None of these
11. Which is the only commercialized GM fruit?
 - a. Banana
 - b. Apple
 - c. Papaya
 - d. Plums
12. 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
13. Which company is the largest biotech company in the world, also responsible for the majority of the GMOs in our food supply
 - a. Kroger
 - b. Nestle
 - c. Monsanto
 - d. Nike
14. Indira Gandhi Centre for Atomic Research is located at:
 - a. Kudankullam
 - b. Kalpakkam
 - c. Kakrapar
 - d. Kaiga
15. The first plant that was modified by genetic engineering was produced in a laboratory in:
 - a. 1954
 - b. 1964
 - c. 1984
 - d. 1994
16. Which of the following practices should be utilized when working in a biological safety cabinet (BSC)?
 - a. Disinfect the work surface of the BSC before and after work
 - b. Disinfect all equipment which go into and out of the BSC
 - c. Donot store any items in the BSC
 - d. All of the above
17. Full Form of PPE is
 - a. Personal Protective Equipment
 - b. Possible Protective Equipment
 - c. Protective Physical Equipment
 - d. Personal Protection Enhancements
18. The US Patent Act of 1930 is restricted to:
 - a. Transgenic plany
 - b. Genetically modified plants
 - c. Asexually propagated plants
 - d. None of these
19. A patent license is an agreement between a licensor and a
 - a. Manufacturer
 - b. Licencee
 - c. Entrepreneur
 - d. None of these
20. The full form SARCOP:
 - a. Smart Review Committee for Operating Plants
 - b. Safety Review Committee for Operating Plants
 - c. Safety Review Committee for Processing Plants
 - d. None of these

(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

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

1. Define Biosafety. Briefly discuss the concerns associated with Biotechnology 3+7=10
2. What is meant by Biological risk assessment? Describe how are the bioagents classified into different risk groups on the basis of their relative risk? 10
3. What is the Atomic Energy Regulatory Board (AERB)? What are the functions of AERB? 10
4. Describe the Indian Biosafety Framework. 10
5. Write about features of Indian Patent Act pre and post TRIPS ammendment? 10
6. Briefly write about provisions, history, pros and cons of General Agreement on Tariffs and Trade (GATT)? 10
7. Write about rights of patent holder? 10
8. Write a short note on 10
 - a) WIPO
 - b) Copyright

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