

APPLIED BIOLOGY
FOURTH SEMESTER
ENTREPRENEURSHIP, IPR, BIOETHICS AND BIOSAFETY
MBT/MMB-405 (MDC)

**SET
C**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

Marks: 20

(Objective)

Choose the correct answer from the following:

1 × 20 = 20

- Which one of the following is included under International Biosafety Organization?
 - Food and Agriculture Organization
 - WHO
 - MoEF
 - Both a and b
- The bacterium *Bacillus thuringiensis* is used as a/an:
 - Pollution indicator
 - Insecticide
 - Source of industrial enzyme
 - Production of dairy products
- How many members does IBC have?
 - 36
 - 40
 - 30
 - 20
- The patent system in India is governed by:
 - Patents Act 1970
 - Patents Rules 1972
 - Patents Act 1980
 - Both a and b
- Which of the following is (are) included in Geographical Indications of Goods?
 - Foodstuff
 - Manufactured product
 - Handcraft
 - All of the above
- A Trademark:
 - Distinguishes the goods or services of one person from those of others
 - Includes shapes of goods or a combination of colors
 - Is represented graphically
 - All of the above
- The Symbol of Maharaja of Air India is a type of:
 - Copyright
 - Patent
 - Trademark
 - GI
- Intellectual Property Rights protects the use of information and ideas that are of:
 - Ethical value
 - Commercial value
 - Social value
 - Moral value
- Which is the most appropriate temperature of autoclaving biomedical waste?
 - 190 °C
 - 100 °C
 - 121 °C
 - 200 °C
- Which PPE is mandatory while collecting nasopharyngeal sample for COVID-19 PCR?
 - Gloves
 - N95 mask
 - Face shield
 - All of the above

11. Which of these is not a type of entrepreneurship?
a. Small business entrepreneurship b. Scalable entrepreneurship
c. Large scale entrepreneurship d. Intrapreneurship
12. Maslow's Hierarchy theory is based on:
a. Social needs b. Esteem needs
c. Security needs d. All of the above
13. The 2 theories on human management and leadership has been postulated by:
a. Herzberg b. Douglas McGregor
c. Maslow d. J. A. Schumpeter
14. The word patent is derived from..... term.
a. *Latin* b. *Greek*
c. *French* d. *Italian*
15. Under which act the geographical indications of goods can be registered by geographical indications in India?
a. Registration Act 1989 b. Registration and Indication Act 1999
c. Registration and Protection Act 1999 d. All of the above
16. Which of the following is not patentable in India?
a. Plant b. Software
c. Nanoparticles d. Both a and b
17. Usefulness, and method of execution falls under:
a. Product Patent b. Process Patent
c. Design Patent d. Copyright
18. Utility, rights, fairness, common good, and virtue approaches are to:
a. Bioethics b. Biosafety
c. IPR d. All of the above
19. Prevention of Food Adulteration Act was established in the year:
a. 1970 b. 1954
c. 1989 d. 1987
20. Which one of the following is not a committee of Indian Biosafety Framework?
a. CERA b. RDAC
c. GEAC d. RCGM

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

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

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| 1. Explain the biosafety guidelines in India evolved by DBT. | 10 |
| 2. Explain the various task of IBC. State the bioethical issues of GMOs. | 5+5=10 |
| 3. Describe the case study of Bt Brinjal. State the importance of good laboratory practices. | 5+5=10 |
| 4. Define Entrepreneurship. What are the types of Entrepreneurship? | 2+8=10 |
| 5. Explain in detail the laws of Entrepreneurial motivation. | 10 |
| 6. Explain in detail the forms of Intellectual Property Rights. | 10 |
| 7. What is Risk assessment? Explain the 4 types of risk groups. | 2+8=10 |
| 8. Explain different containment levels and their safety practices. | 10 |

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