REV-01 BMB/24/29

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

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective)

Time: 30 mins.

Choose the correct answer from the following:

Marks: 20 $1 \times 20 = 20$

2023/06

SET

B

Full Marks: 70

1. The full form of LMO is:

a. Live Modified Organism

b. Latent Modified Organism

c. Living Modified Organism

d. Least Modified Organism

Biosafety is working safety with biological material or organisms with potential to cause disease in:

a. Animals

b. Humans

c. Plants

d. All of the above

Golden rice is a genetically modified crop plant where the incorporated genes are meant for biosynthesis of:

a. Vitamin A

b. Vitamin C

d. Beta carotene

c. Vitamin B

4. Invention means:

 a. New product having inventive step and are capable of industrial application

c. New process

 New product or process having inventive steps and capable of industrial application

d. None of the above

5. AERB was constituted by:

a. Prime Minister of India

b. President of India

c. Chief Minister of States

d. Governor of States

6. The AERB was established in:

a. November 1983

b. September 1983

c. November 1980 d. November 1986

7. "Exclusive licence" mean:

a. A licence from a patentee which confers on the licensee

b. A licence from the Patent registrar

c. A licence under Patent Cooperation Treaty d. None of the above

8. Types of Patent Applications permissible in India:

i) Ordinary Application ii) Convention Application iii) PCT National Phase Application

iv) Divisional Application v) Patent of Addition
a. Only ii and iii b. i and iii

d. All

c. Only i

USTM/COE/R-01

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| 19. | The full form of AERB is: a. Atomic Emission Regulatory Board c. Atomic Energy Regulatory Board | | All Energy Regulatory Board None of these |
|-----|--|----------|--|
| | Full Form of PPE is: a. Personal Protective Equipment c. Protective Physical Equipment | | Possible Protective Equipment Personal Protection Enhancements |
| | When they are placed outside for storage | d. | None of the above |
| 17. | Biohazard waste containers should be oper a. At all times | | Only when actively adding waste to them |
| 16. | Budapest Treaty provides for deposit of mia. Controller of Patents c. Contracting states | b. | rganisms with State Government International Depository Authority (IDA) |
| | Assertion: Patents protect inventions. Reason: Intellectual property rights are desprotects. a. A is true but R is false c. Both A and R are true and R is not the correct explanation of A | b. d. | A is false but R is true Both A and R are true and R is the correct explanation of A |
| 15. | Operating Plants c. Safety Review Committee for Processing Plants Which of the following options is correct? | d. | Plants None of these |
| 14. | The full form SARCOP: a. Smart Review Committee for | b. | Safety Review Committee for Operation |
| | a. United Nation (UN)c. International Labour Organization (ILO) | b. | World Trade organization (WTO) World Intellectual Property Organization (WIPO) |
| 13. | Mode of principle of construction Which organization oversees the implement | | Principle of colors on of the TRIP's agreement? |
| 12. | Designs does not include | | Composition of lines and color |
| 11. | What is the main purpose of IPRs? a. Encourage new creations c. More investments | | More marketing All of the above |
| 10. | Which of the following remedies is not avaa. Civilc. Administrative | ь. | le for infringement? Criminal Personal law |
| | Patent is a | d. | Negotiable property Non-transferable property |

- 20. 'Bt' as in Bt Cotton, stands for:a. Genetically modified cropsc. Bacterium Bacillus Thuringiensis
- b. Bacterium Bacillus Theogind. Bacteria Bacilli Thuringien

(<u>Descriptive</u>)

| Time: 2 hr. 30 mins. | | |
|----------------------|---|----------|
| | [Answer question no.1 & any four (4) from the rest] | |
| 1. | Explain in brief the different forms of 'intellectual property rights' for the protection of Industrial properties. Write in detail about one of the international organizations (related to IP) of which India is a part. | 5+5=10 |
| 2. | What is meant by Biosafety? Write a note on the Biosafety levels. | 5+5=10 |
| 3. | What are Genetically modified organisms? Write a note on their advantages and challenges. | 3+7=10 |
| 4. | Write in brief about two treaties administered by WIPO. Explain the different rounds of negotiations that took place under WTO. | 5+5=10 |
| 5. | What is the Atomic Energy Regulatory Board (AERB)? What are the functions of AERB? | 5+5=10 |
| 6. | Write about/draw a flow chart on the patenting authorities of the Indian Patent Office (IPO) in a hierarchical manner. What is the role of the controller and the patent Examiner? Write in brief about the different steps in the patent granting procedure. | 3+2+5=10 |
| 7. | What is the Cartagena Protocol on Biosafety? Explain its objectives and main features. | 5+5=10 |
| 8. | What do you mean by a 'license' given by a patentee and what are the different types of licenses? Write in brief about 'the infringement of trademarks and the remedies/reliefs available for such infringement. | 1+5+4=10 |

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