M.Sc. BIOTECHNOLOGY FOURTH SEMESTER

ENTREPRENEURSHIP, IPR, BIOSAFETY & BIOETHICS MBT-406 (MDC)

(Use separate answer scripts for Objective & Descriptive)

Duration: 3 hrs.

(PART-A: Objective)

Time: 20 min. Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

Full Marks: 70

1. Which of the following is one of the oldest conventions for protection of industrial property?

a.Strasbourg convention

b.PCT

c.Budapest Treaty

d.Paris Convention

2. The Indian Patent Act 1970 allows the process patent for a maximum time ofyears from the date of grant.

a.2 Years

b.5 Years

c.10 Years

d.15 Years

3. Which is the main component of international cooperation for intellectual property?

a.TRIPs

b.WIPO

c.WHO

d.WTO

4. When was WTO established?

a.1991

b.1993

c.1995

d.1997

5. The GOI notified how many countries as the convention countries?

a.125

b.150

c.175

d.200

6. The device used to decontaminate microbes is:

a.PCR

b. Autoclave

c.Microbe

d. Weighing balance

7. The filters present in laminar flow is:

a.HAPE

b.HIPE

c.HEPE

d.HEPA

8. The highest level of biosafety is:

a.BSL-4

b.BSL-3

c.BSL-2

d.BSL-1

9. Microbe responsible for TB is......

a.E. coli

b. Mycobacterium tuberculosis

c.Salmonella

d. Virus

10. Biosafety rules and regulations are meant for the safety of.....

a.Individual

b.Environment

c.Environment and individual

d. None of the above

11. Which of the following is not one of the recognized entrepreneurial influencing skills? Is it:

a. Leadership and vision

b.Criticism and punishment

c. Helping and resolving conflict

d.Teamwork and people management

12. Which of these is not true about entrepreneurs?

a.Entrepreneurs are born, not made b.Anyone can start a business.

c.Entrepreneurs are gamblers.

d. Age is no barrier in entrepreneurships.

13. The business plan:

a. Helps determine the viability of your enterprise.

b. Helps you obtain financing.

c. Guides you as you plan and organize.

14. According to the governing bodies of common laws, the life of trade secret is:

a. As long as it remains confidential b.10 years

c.17 years d.20 years

15. The resistance of employees in an organization against flexibility, growth and diversification can be overcome by developing:

a.Entrepreneurship

b.Intrapreneurship

c. Managerial domain

d. Administrative domain

16. The term 'Intellectual Property Rights' covers:

a. Copyrights

b.Know-how

c.Trade dress

d. All of the above

17. Intellectual Property Rights (IPR) protect the use of information and ideas that are of:

a.Ethical value

b. Moral value

c.Social value

d.Commercial value

18. The following can be patented:

a. Composition of matter

b. Machine

c.Process

d. All of the above

19. Trademark:

a. Is represented graphically.

b.Is capable of distinguishing the goods or services of one person from those of others.

c. May include shapes of goods or combination of colours.

d. All of the above.

20. In India, the literary work is protected until:

a. Lifetime of author

b.25 years after the death of author

c.40 years after the death of author d.60 years after the death of author

PART-B: Descriptive

Time: 2 hrs. 40 min.

Marks: 50

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

1. Briefly explain the Indian Patent Act giving emphasis on Indian Patent Act 5+5=10 1970.

5+5=10

2. Write short notes on: (any two)

a. Trade Secrets

b. Geographical Indication

c. Copyright

d. Trademark

3. What are the different paradigms of bioethics, nationally and internationally?

10

4. Mention briefly the ethical issues against molecular technologies.

10

5. What is biosafety? Explain the different types of biosafety levels.

2+8=10

6 Write the importance of autoclave and laminar flow in microbial testing.

5+5=10

7 Define Entrepreneur. Discuss the characteristics of an entrepreneur.

2+8=10

10

8. Explain the role and importance of Entrepreneur in economic growth.

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