



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – M.Sc.(BT)-2022/M.Sc.(BT)-2023

Course Name – IPR and Biosafety

Course Code - MBTC303

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Example of tangible property
 - a) Patent
 - b) Trademark
 - c) Franchise
 - d) Equipment
- (ii) Symbol of Maharaja of Air India is
 - a) Copyright
 - b) Patent
 - c) Trademark
 - d) All of the these
- (iii) Choose which of these include a laboratory practice in BSL IV level
 - a) Toxic and hazards chemical
 - b) mitochondrial cloning
 - c) self cloning
 - d) None
- (iv) Distinguish the type of work done in Biosafety level III laboratory
 - a) Clinical research
 - b) dangerous and exotic agents
 - c) Undergraduate training institute
 - d) None
- (v) Imagine a footballer sets up his own company to sell his own range of clothes. What type of intellectual property can he use to show that the clothes are made by his company?
 - a) copyright
 - b) geographical indications
 - c) patents
 - d) trademarks
- (vi) The acronym HEPA (as in HEPA Filter) stands for:
 - a) High-Efficiency Particulate Air
 - b) High-Energy Particles in Air
 - c) High-Evaluation Protection
 - d) Hepatitis A
- (vii) SBCC stands for
 - a) State Biotechnology Coordination Council
 - b) State Biotechnology Coordination Committee
 - c) State Biotechnology Coordination Corporation
 - d) Soil Biotechnology Coordination Committee
- (viii) Safety equipment for primary barriers include

- a) Ventilators
- c) Safety glasses
- (ix) In the context of patent applications, what does PCT stand for?
 - a) Patent Cooperation Treaty
 - c) Patent Conformity Tribunal
 - b) Face shields
 - d) Both ii and iii
- (x) Test what is the purpose of a complete specification in a patent application?
 - a) To provide a detailed and clear description of the invention.
 - c) To outline the financial aspects of the invention.
 - b) Provisional Copyright Test
 - d) Prioritization of Copyrights Treaty
- (xi) Trace how does prior art impact the patentability of an invention?
 - a) It has no impact
 - c) It only affects the length of patent protection
 - b) To speed up the patent examination process.
 - d) To secure copyright protection for the invention.
- (xii) Report which organization is primarily responsible for the international framework of intellectual property protection?
 - a) GATT
 - c) WIPO
 - b) WTO
 - d) TRIPS
- (xiii) Organisms managed in BSL-III labs are
 - a) Leishmania donovani
 - c) M. tuberculosis
 - b) SARS coronavirus
 - d) All of these
- (xiv) The violation of patent is called as
 - a) procecution
 - c) infringement
 - b) conviction
 - d) violation
- (xv) Hepatitis A, B, and C virus can be studied in
 - a) BSL I laboratory
 - c) BSL III laboratory
 - b) BSL II laboratory
 - d) BSL IV laboratory

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. List the goal of biosafety sterilization. (3)
- 3. Explain the process of Traditional Knowledge patenting. (3)
- 4. Select the function of WIPO. (3)
- 5. Define effects of Patent Amendment Act 2005. (3)
- 6. Choose what should be the role of Institutional Biosafety Committee (IBSC) in rDNA research (3) activities.

OR

Explain the concept of Biological Safety Cabinets (BSCs) and their role in laboratory safety. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. Classify waste categories based on biosafety standards in laboratory institutions. (5)
- 8. State the categories of deisgn rights. (5)
- 9. Explain the objectives of the General Agreement on Tariffs and Trade (GATT), signed on October 30, 1947. (5)
- 10. Evaluate the role of Six competent authorities for regulation of GMOs in India. (5)
- 11. Decide Procedure for approval of confined field trials and environmental release of GE plants. (5)

12. Evaluate the role of Institutional Biosafety Committee (IBC) in India. (5)

OR

Summarize the history of the General Agreement on Tariffs and Trade. (5)

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