Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 11

**M.Sc (Biotechnology) (Sem-3)**
# IPR, GOOD LAB PRACTICES AND BIOETHICS
**Subject Code : MBT-304**
**M.Code : 76731**
**Date of Examination : 02-01-23**

Time : 3 Hrs.                                                              Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SEVEN questions carrying SIX marks each and students have to attempt any FIVE questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

## SECTION-A

1.  **Write briefly :**

    a.  What is Tangible and Intangible property?

    b.  What is Non-obviousness and its importance?

    c.  What is Utility Patent?

    d.  What is Patent search?

    e.  What are GMOs?

    f.  What is TKDL?

    g.  How many safety levels exist?

    h.  Mention the paradigms of Bioethics.

    i.  Why is chemical inventory required in a laboratory?

    j.  Difference between bioethics and biopiracy.

## SECTION-B

2. Discuss the need of IPR and its management.

3. What is knowledge management database of IPR? Mention the various databases for patent search.

4. Discuss the concepts of folklore and traditional knowledge?

5. Why is maintenance of lab record book necessary? How is radiation safety maintained in the lab?

6. What is the international standards of bioethics and discuss the ethical issues of patenting?

7. What are the condition and procedures of registration?

8. What are the various levels of contamination and how can they be eradicated?

## SECTION-C

9. Discuss in detail the TRIPS agreement and the amendments made in Indian Patent Law after India became the member of TRIPS.

10. Discuss in detail the GLPs in a Biotechnology Laboratory including handling of glassware, chemicals and biological material.

11. Discuss the bioethical issues arising out of Neem and Haldi cases.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student**.