

M.Sc. (Zoology) Semester - 4 (CBCS) Examination
March/April - 2024 (NEW COURSE)
Research Methodology, IPR and Biosafety (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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SECTION – I

- Q.1 Answer the Following. (14)
- A. Write about responsibility of mentee. Mention duties of a research student.
 - B. Plagiarism checking is mandatory. Explain in detail.
- OR
- Q.1 Which points to be considered for writing a quality research paper. Give examples. (14)
- Q.2 Answer the Following. (14)
- A. Describe Patent and copyright in detail.
 - B. What is R & D? Why it is important? Explain IP as a factor in R & D.
- OR
- Q.2 Describe Industrial Design, Traditional Knowledge, Geographical Indications and Protection of New GMOs. (07)
- Q.3 Answer any seven out of eight. (07)
1. What is the importance of aims and objectives?
 2. Do you think mentor can help you? How?
 3. How will you find a research problem?
 4. Explain trademarks.
 5. Write names of some software for plagiarism checking.
 6. Describe Intellectual Property Right.
 7. What is data validation?
 8. Name some patents.

SECTION - II

- Q.4 Answer the Following. (14)
- A. What is research proposal? write a research proposal in short.
 - B. Describe role of National funding agency with examples.
- OR
- Q.4 Describe review writing with suitable example. (14)
- Q.5 Answer the Following. (14)
- A. Write about biosafety cabinet.
 - B. Describe Roles of Institutional Biosafety Committee.
- OR
- Q.5 Explain transgenic animals with examples. (07)
- Q.6 Answer any seven out of eight. (07)
1. Define GMOs & LMOs.
 2. what do you mean by Biosafety Levels of Specific Microorganisms.
 3. When can you write a good review?
 4. Enlist the types of research articles.
 5. Explain types of scientific research in short.
 6. Explain environmental release of GMOs and its effects.
 7. What is Cartagena Protocol? In which year it was declared?
 8. What is HEPA filter?
