

| Name: | |  | |
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| Enrolment No: | | | |
| UPES End Semester Examination, December 2024 | | | |
| Course: Research Methodology & Ethics Program: M.Sc. Chemistry Course Code: ASRM8001 | | Semester: III Time : 03 hrs. Max. Marks: 100 | |
| SECTION A (5Qx4M=20Marks) | | | |
| S. No. | | Marks | CO |
| Q 1 | Discuss the importance of referencing in scientific report writing. | 4 | CO1 |
| Q 2 | Discuss the subject matter of Copyright. | 4 | CO2 |
| Q 3 | Outline the obligations of a patentee as per the Patent Act, 1970. | 4 | CO3 |
| Q 4 | Institutional Review Board plays a key role in retaining research ethics among scientific community. Elaborate. | 4 | CO4 |
| Q 5 | Discuss the applications of the principles of Belmont report. | 4 | CO4 |
| SECTION B (4Qx10M= 40 Marks) | | | |
| Q 6 | Give details of all the elements of a scientific research article. | 10 | CO1 |
| Q 7 | Elaborate different types of Intellectual Property Rights. | 10 | CO2 |
| Q 8 | Discuss <i>any two</i> of the following: a) The WIPO Convention, 1967, b) The Patent Co-operation Treaty, 1970 c) The Universal Copyright Convention, 1952 | 5 + 5 | CO2 |
| Q 9 | Give details on the criteria for patentability. <p style="text-align: center;">OR</p> Explain 'Geographical Indication' (GI) with suitable examples. | 10 | CO3 |
| SECTION-C (2Qx20M=40 Marks) | | | |
| Q 10 | A) Describe the rights of a Copyright owner. B) Define 'Industrial design' under IPR with suitable examples. | 10 + 10 | CO3 |

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| Q 11 | <p>A) Discuss different types of ethical issues. B) Review <u>any 5</u> norms of scientific research.</p> <p style="text-align: center;">OR</p> <p>A) Explain Research misconduct with examples. B) Elaborate how can one ensure research integrity?</p> | 10 + 10 | CO4 |