

M.Sc. Sem.-3 Examination

504

Bio-Technology (C)
(Concepts of Bio. Bus.)

November-2025

Time : 2-30 Hours]

[Max. Marks : 70

- Q1 Which biotechnology background or skills are a must for Entrepreneurship in Bio business 14
- OR
- Q1 A. Define and differentiate terms creation, invention, and innovation with an example 07
- B. Why are bio-innovations important and the need of the hour? 07
- Q2 Write a detailed note on the different Intellectual Property Rights (IPR) types. 14
- OR
- Q2 A. Describe the problem of patent trolls and explain how counterfeiting and piracy also pose challenges to IPR enforcement. 07
- B. Explain the importance of WIPO in patent law harmonization. 07
- Q3 Describe basic principles and activities of Quality Control and Quality Assurance. 14
- OR
- Q3 A. What are bioethics? Write about the four principles of bioethics. 07
- B. Discuss the purpose, principle, and history of the Indian pharmacopoeia in detail. 07
- Q4 Write an exhaustive note on Bioethics principles and codes. 14
- OR
- Q4 A. Discuss the Risk groups and various biosafety levels assigned. 07
- B. What is the composition, roles, and responsibilities of an Ethical committee? 07
- Q5 Answer the following (any seven) 14
- 1) What is a prototype?
 - 2) What are frugal innovations?
 - 3) Name a few startup schemes of the Government, central/state, for entrepreneurship development
 - 4) Name any four products granted a Geographical Indication (GI) tag.
 - 5) State method/s adopted for IP valuation.
 - 6) What was the central legal question in the Diamond v. Chakrabarty case?
 - 7) What is ISO 9001: 2015?
 - 8) Why do we need regulatory agencies?
 - 9) Define 'Good Laboratory Practice'.
 - 10) Define placebo.
 - 11) Give full name of CDSCO.
 - 12) What are hits and leads in the context of drug discovery?

