

M.Sc Sem-3 Examination**504****Biotechnology (EC-Bio Bus)****Time : 2-30 Hours]****November-2024****[Max. Marks : 70**

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|-----|---|----|
| Q-1 | Discuss various avenues or sectors open for BT entrepreneurship? | 14 |
| | OR | |
| Q-1 | A What are entrepreneurial traits? | 07 |
| | B Highlight the need for funds for entrepreneurship. | 07 |
| Q-2 | Discuss the types of Intellectual Property Rights (IPR) in detail. | 14 |
| | OR | |
| Q-2 | A Describe the exclusions of patentability under the Patent Act, 1970. | 07 |
| | B Discuss diamond Vs Chakrabarty case study in detail. | 07 |
| Q-3 | Describe structural and functional configurations of Public Health Laboratories in India. | 14 |
| | OR | |
| Q-3 | A What is bioethics? Write on four principles of bioethics. | 07 |
| | B What is Quality Control? Note down the basic principle and requirements of QC. | 07 |
| Q-4 | Describe Biosafety level laboratories and biosecurity concepts in detail. | 14 |
| | OR | |
| Q-4 | A Explain biosafety guidelines in India. | 07 |
| | B Give detailed note on phases involved in clinical trial. | 07 |
| Q-5 | Write the answer in brief (any seven) | 14 |
| | 1 What is proof-of-concept? | |
| | 2 Enlist different sectors of biotech for bio-businesses. | |
| | 3 What are probable funding sources for any startup? | |
| | 4 Define - geographical indications with suitable example | |
| | 5 What are the objectives of TRIPS? | |
| | 6 What is Patent Infringement? | |
| | 7 Define 'Good Laboratory Practice'. | |
| | 8 What is ISO 9001: 2015? | |
| | 9 Name any two media with their control organisms for the quality control. | |
| | 10 What is biohazard? | |
| | 11 Enlist two names of BSL-4 laboratories | |
| | 12 Enlist softwares used for drug designing. | |