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School of Biological and Life sciences

Master of Science in Biochemistry

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem II - P1PP205B - MicrobiologyGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Discuss the structural differences between DNA and RNA molecules, and highlight their respective functions within the cell. K2 (2)
- 2) What is the importance of nitrogen source and carbon source in media. K1 (3)
- 3) Discuss the contributions of Edward Jenner and Louis Pasteur in the microbiology area. K2 (4)
- 4) Discuss the importance of microbiology in various areas. K2 (6)
- 5) Differentiate between Obligate anaerobes and Facultative anaerobes. K3 (6)
- 6) Discuss the process of bacterial transformation, including the uptake of naked DNA from the environment and its integration into the recipient bacterial genome. K3 (9)
- 7) Explain the three domain classifications with example and write note on prions. K4 (8)
- 8) What are the nutrients which are required for proper growth of microbes and explain any one technique for obtaining pure culture? K4 (12)

OR

- Demonstrate the following with suitable example (i) Scope of microbiology in Industrial field (ii) various classes of Algae (iii) Dinoflagellates (iv) Germ theory of diseases K4 (12)