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School of Biomedical Science
Bachelor of Science Honours in Forensic Science
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - Q1UA402T - Biological-Analytical Techniques

General 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) Explain the separation of component in vertical rotor K2 (2)
- 2) What is RCF? Derive and Explain K1 (3)
- 3) Derive the velocity of particle suspended in the fluid K2 (4)
- 4) Illustrate analytical centrifugation K2 (6)
- 5) Illustrate the classification of enzymes K3 (6)
- 6) Identify precipitin bands? Explain prezone, post zone and zone of equivalence? K3 (9)
- 7) Explain Analytical centrifugation in detail (diagram required) K4 (8)
- 8) Elaborate centrifugation types and their applications in cell fractionation (details with diagram necessary). K4 (12)

OR

Describe the different types of centrifugation techniques, including differential centrifugation, density gradient centrifugation, and ultracentrifugation. Compare and contrast their applications in separating biological samples. K4 (12)