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School of Biological and Life sciences**Master of Science in Microbiology
Mid Term Examination - Nov 2023****Duration : 90 Minutes
Max Marks : 50****Sem I - P1PT107B - Cell Biology**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) Which of the following correctly matches a phase of the cell cycle K2 (2)
- 2) What are tunnel proteins? Describe with suitable example. K1 (3)
- 3) Explain micellar model of plasma membrane with suitable diagram K2 (4)
- 4) What is the nucleus, and what is its role in eukaryotic cells? K2 (6)
- 5) Explain the relationship between the nucleus and the nucleolus in cellular processes. K3 (6)
- 6) Discuss the role of microfilaments in the cell and its structure with diagram. K3 (9)
- 7) Elaborate the structure and mechanism of nuclear pore complex. K4 (8)
- 8) Explain how the structure and properties of phospholipids help to maintain the structure of cell membranes. K4 (12)

OR

How is the cell membrane organized? Include lipids and proteins. K4 (12)