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**School of Biological and Life sciences**  
Bachelor of Science in General Zoology Botany Chemistry  
Mid Term Examination - Nov 2023

Duration : 90 Minutes  
Max Marks : 50

**Sem I - P1UC101B - Fundamentals of 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) Explain the role of the endoplasmic reticulum in protein synthesis and processing. K2 (2)
- 2) Differentiate between pinocytosis and phagocytosis with examples. K1 (3)
- 3) Explain the role of phospholipids. K2 (4)
- 4) Explain protein modification process. K2 (6)
- 5) Identify the importance of cell-cell interactions in multicellular organisms. K3 (6)
- 6) Discuss the role of microtubules in cellular processes such as mitosis and cell shape maintenance. K3 (9)
- 7) How is the cell membrane organized? Include lipids and proteins. K4 (8)
- 8) Discuss the tight and gap junctions. K4 (12)

**OR**

Discuss the various types of transport systems in cells and their mechanisms. K4 (12)