

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**School of Biological and Life sciences****Master of Science in Microbiology****Mid Term Examination - Nov 2023****Duration : 90 Minutes****Max Marks : 50****Sem I - P1PP101T - Biomolecules**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) Define polysaccharides. K2 (2)
- 2) Define carbohydrate. List out its important functions in the living body. K1 (3)
- 3) What is pH. Find out the pH of solution having hydrogen ion concentration  $1 \times 10^{-4}$  K2 (4)
- 4) Critically outline the significance of biological buffers in living systems. K2 (6)
- 5) Distinguish between following pair: a) Hydrogen bond and Vanderwall forces b) and non-covalent interactions c) Ionic interaction and hydrophobic interaction. K3 (6)
- 6) Elucidate the types of membrane lipids. K3 (9)
- 7) Classify different types of lipoproteins. K4 (8)
- 8) Give an brief account of function, types and structure of carbohydrates. K4 (12)

**OR**

- Give an brief account of function, types and structure of lipid. K4 (12)