

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

**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 - P1UE101T - Biochemistry and Physiology**

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) What are the soluble and insoluble portions of the starch K2 (2)
- 2) Name the storage polysaccharides present in animals and plants structural differences between them. structural differences between them. structural differences between them. K1 (3)
- 3) Give the classification of lipids K2 (4)
- 4) What is the composition of disaccharides and explain how the monosaccharide units are joined in their structures. Explain the biological importance of disaccharides joined in their structures. Explain the biological importance of disaccharides K2 (6)
- 5) Write a short note on plasma proteins and their functions K3 (6)
- 6) Define isoenzymes and explain their structure, organ distribution and diagnostic importance K3 (9)
- 7) Discuss in details about carbohydrates classification with examples and its importance K4 (8)
- 8) Why is cellulose insoluble in water and why is it not used as an energy source by human beings? K4 (12)

**OR**

Illustrate various levels of structural organizations of protein molecules K4 (12)