

ADMISSION NUMBER											

School of University Polytechnic Diploma in Civil Engineering

Mid Term Examination - Nov 2023

Duration : 90 Minutes Max Marks : 50

Sem I - N1DF105C - Basic Chemistry

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 Chemical bonding with examples.	K2 (2)
2)	Define Hund's Rule of maximum multiplicity.	K1 (3)
3)	Explain the limitations of Valence Bond Theory (VBT).	K2 (4)
4)	Explain de Broglie'e hypothesis.	K2 (6)
5)	Identify the observations of gold foil experiment.	K3 (6)
6)	Identify Molecular Orbital Diagram for (Homo-diatomic) Helium (He2).	K3 (9)
7)	Analyze Valence bond theory (VBT) in detail with suitable examples.	K4 (8)
8)	Simplify the structure of atom by using Bohr's model.	K4 (12)
	OR	
	Compare the limitation of VBT & MOT theory.	K4 (12)