

ADMISSION NUMBER											

School of University Polytechnic Diploma in Mechanical Engineering Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem III - N1DL301B - Applied Mechanics

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)	Write the force law of equilibrium.	K2 (2)
2)	Define space and matter.	K1 (3)
3)	Define moment law of equilibrium.	K2 (4)
4)	Define general conditions of equilibrium.	K2 (6)
5)	Explain the reactions at supports and connections.	K3 (6)
6)	Explain the law's of equilibrium.	K3 (9)
7)	Investigate the application of newton's law.	K4 (8)
8)	Investigate the principles of physical independence of forces.	K4 (12)
	OR	
	State the properties of a couple.	K4 (12)