

ADM	ISSION	NUM	1BEF	₹		

School of University Polytechnic Diploma in Civil Engineering

Mid Term Examination - May 2024

Duration: 90 Minutes Max Marks: 50

Sem IV - N1DB402B - Hydraulics

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 Intensity of Pressure.			
2)	Relate hydraulics with fluid mechanics.	K1 (3)		
3)	Explain Compressibility.	K2 (4)		
4)	Explain compressible and incomressible flow.			
5)	Identify the uses of simple manometer.			
6)	Calculate the density, specific weight and weight of one litre of petrol of specific gravity 0.7.	K3 (9)		
7)	State and Explain Newtons Law of viscosity.	K4 (8)		
8)	Obtain an expression for the pressure intensity at a point in a fluid.	K4 (12)		
	OR			
	A pipe ,through which water is flowing ,is having diameters,20 cm and 10 cm at the cross-sections 1 and 2 respectively. The velocity of water at section 1 is given 4.0 m/s. Find the velocity head at sections 1 and 2 and also rate of discharge.	K4 (12)		