GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of University Polytechnic

Diploma in Civil Engineering
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

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)	Define Unsteady Flow.	K1(2)
2)	Explain surface tension.	K2(4)
3)	Explain Non -Newtonian fluid.	K2(6)
4)	Derive the expression for measurement of velocity through pitot tube.	K3(9)
5)	State the Pascal's Law and Explain it with example.	K3(9)
6)	Explain the Reynolds's experiment with neat diagram.	K5(10)
7)	Differentiate between liquids and gases.	K4(12)
8)	Derive the equation for measurement of guage pressure using U tube manometer.	K5(15)
9)	Determine the viscosity of a liquid having kinematic viscosity 6 stokes and specific gravity 1.9 .	K5(15)
10)	Derive the expression for head losses due to friction in pipes.	K6(18)