



ID. No/Seat No.

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO

MID SEMESTER EXAMINATION 2024

3rd SEMESTER (REGULAR)

B.E (PETROLEUM ENGINEERING) (22- BATCH)

SUBJECT (Code)

FLUID MECHANICS (CE-261)

Dated: 19-02-2024

Time Allowed: 1 Hours (2 C.H)

Max: Marks: 15

NOTE : ATTEMPT ALL QUESTIONS.

Q.No. 01(a)

4 Marks

Analyze the flow behavior of the Bingham Plastic and Herschel Bulkley fluids . (CLO-1:C3, PLO-2)

Q.No. 01(b)

4 Marks

If the velocity distribution of a plate is given by $U = \frac{2}{3}y - y^2$. where y is the distance from the solid boundary in meters , U is velocity in m/s determine shear stress at $y = 0$ m & $y = 0.15$ m. $\mu = 8.63$ poise (CLO-1:C3, PLO-2)

Q.No. 02

07 Marks

Demonstrate the concept of newton's law of viscosity in detail (CLO-1:C3, PLO-2)

Name of Subject Teacher: Engr. Mukhtiar Ali Talpur

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