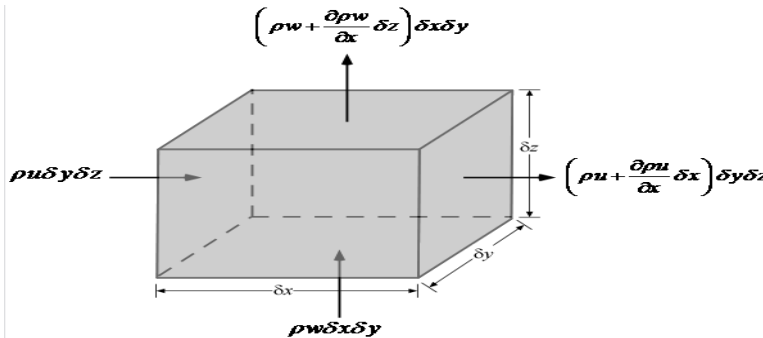




**MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY,
JAMSHORO**

**FINAL SEMESTER EXAMINATION 2023 OF THIRD SEMESTER SECOND YEAR
(21-BATCH) OF B.E (PETROLEUM & NATURAL GAS ENGINEERING)**

FLUID MECHANICS (CE-263)

Dated: 08/04/2023		Time: 02 HOURS (2 C.H)		Max. Marks-30	
Note:	ATTEMPT ANY TWO QUESTIONS.				
		CLO	Taxonomy Level	Marks	
Q.No.01	Derive an expression for the surface forces acting in the X-direction for the conservation of the momentum equation.	2	C5	5	
a)					
b)	Bernoulli's equation can be viewed as a conservation of energy law for a flowing fluid $P + \frac{1}{2} \rho V^2 + \rho g h = C$. Demonstrate the underlying concept behind Bernoulli's equation	2	C3	5	
Q.No.02	Derive the continuity equation and Discuss the physical process and concept behind the continuity equation	2	C2	10	
a)					
Q.No.03	Discuss the individual efficiencies that affect the operation of centrifugal pumps	3		5	
a)					
b)	Classify the types of air compressors	3		5	

Name of Subject Teacher: Engr. Mukhtiar Ali Talpur

..... **The End**