ID. No/Seat No.

MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY, JAMSHORO

FINALSEMESTER EXAMINATION 2021 OF THIRD SEMESTER (19-BATCH) OF B.E (PETROLEUM & NATURAL GAS)

FLUID MECHANICS (CE-261)

Dated: 10-07-2020	Time: 02 Hours (2 C.Hs)	Max. Marks-30
Note:	**ATTEMPT ALL QUESTIONS.**	

Q.No		**CLO**	**Taxonomy Level**	**Marks**
1(a)	Discuss the concept of fluid in rigid body motion or fluid statics. What do you know about the shear stresses when the fluid would be in the static condition?	1	02	04
(b)	According to Pascals law pressure at a point in fluid in rest is same in all the direction. Demonstrate the proof of pascal's law.	1	03	06
2(a)	Continuity equation can be applied to comprehend the mass flow rate of the fluid in pipes, tubes or ducts. Derive the general form of the continuity equation	2	03	06
(b)	Derive the continuity equation for the incompressible flow and the steady state flow	2	03	04
3	Explain the bernoullis theorem assumptions and applications and Derive the general Bernoullis theorem with the help of diagram.	2	05	10

Name of Subject Teacher: Engr. Mukhtiar Ali Talpur

……. The End …….