or below its general level.

A pitot tube is used to measure

a) Velocity of flow b) pressure of flow c) flow rate d) discharge

is phenomenon by which liquid rises and falls into thin glass tube above

L 1/C01

L 1/C0 1

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L 1/CO 5

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6

a) Centre of gravity b) Centre of buoyancy c) meta centre d) None of these

Point of application of force of buoyancy of a body is known as

c) surface tension d) capillarity

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination - Sept./Oct. 2019

Subject Name: Hydraulics-Max Marks: 20 Course: B. Tech in Civil Engineering Date:-09/10/2019 **Subject Code: BTCVC 303** Duration:- 1 Hr. Sem: III

Instructions to the Students:

•	ယ	2	<u>, </u>	Q. 1	ယ္၊	? <u>.</u>
a) Stream line b) Path line c) Streak line d) None of these	3. The path followed by a fluid particle in motion L 1/CO 3	2. The pressure as the depth of liquid increases. L 1/C0 4	1. Compressibility is reciprocal of a) Bulk modulus of elasticity b) Shear modulus L 1/CO 1 of elasticity c) Young's modulus of elasticity d) None	Q. 1 Multiple choice question	3. Assume suitable data if necessary (Level/CO)	Figure to the right indicate full marks All question are compulsory

Marks

0.2 Solve Any Two of the following.

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Define	Write o	pressu	of wate	such a	A recta
(C) Define i)Capillarity ii)Surface tension iii)Dynamic viscosity	(B) Write down types of manometer and explain any one	pressure, when the upper edge is 1.5m below the free surface	of water. Determine the total pressure force and position of centre of	such a way that the plane makes an angle 30° with the free surface	(A) A rectangular plane surface 2m wide and 3m deep lies in water in
larity	es of r	the up	nine ti	the pl	lane sı
ii)Suı	nanon	per ed	he tota	ane m	urface
face to	ieter a	ge is 1	l press	akes a	2m wi
ension	nd exp	.5m b	sure fo	n angle	ide and
iii)L)lain ar	elow th	rce and	e 30° w	1 3m d
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ordinate and a second of the s	Explain discharge and Drive continuity equation in Cartesian Co	each other	(A) Show that equipotential line and stream line are perpendicular to
	L 3/CO 5		L 3/CO 5

End ***