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		*** End ***	A rectangular plane surface 2m wide and 3m deep lies in water in such a way that its plane makes an angle of 30° with the free surface of water. Determine the Total Pressure and Position of Centre of Pressure when the upper edge is 1 5m below the free surface of water.		Solve Any One of the following.		Explain the term Surface Tension in detail with neat sketch.	Derive the expression for Pascal's Law with neat sketch.	Derive the expression for Pressure variation in a Fluid at Rest with neat sketch.	Solve Any Two of the following.		6. One Stoke is equal to b) 1 cm ² /s b) 10 cm ² /s c) 100 cm ² /s d) None of these	b) Velocity b) Speed c) Acceleration d) Torque	In Dynamic Viscosity, The Shear Stress is Proportiona	4. Unit of Specific Gravity or Relative Density is b) Kg/m ³ b) Kg/m ² c) Unit less Quantity d) N.S/m ²	a) Mass Density b) Weight density c) Specific Gravity d) Viscosity	a) Fluid Statics b) Fluid Kinematics c) Fluid Dynamics d) Fluid Mechanics	Fluid Statics b) Fluid Kinematics c	1. The branch of science which deals with the behavior of fluids at rest or in Motion is Called		1	Instructions to the Students: 1. Please check whether you have got the right question paper 2. Assume suitable data wherever necessary. 3. Figures to the right indicate full marks.	Marks: 20 Date:-05/10/2019 Duration	Subject	Course: S.Y.B. Tech in MECHANICAL ENGINEERING Sem: I	Mid Semester Examination – Sept./Oct. 2019	DR RARASAHER AMBEDKAR TECHNOLOGICAL UNIVERSITY, L
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