



Program: Diploma in Civil/Hydropower Engg.

Full Marks: 80

Year/Part: III/I (2013, 2017)

Pass Marks: 32

Subject: Basic Hydraulic © Arjun

Time: 3 hrs

Candidates are required to give their
The figures in the margin indicate full



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Attempt Any Five questions.

1. a) What are the properties of fluids? Explain different types of fluids with an example. [4+4]
b) Two large plane surface are 30cm apart. The space between the surface is filled with glycerin. What force is required to maintain of 0.6m/sec. Velocity of thin plate of surface area 0.5m^2 between the two large plane surface. If the thin plate is in middle of the two plane surface. Take the dynamic viscosity of glycerin= $8.10 \times 10^{-3} \text{ kgf s/m}^2$. [8]
2. a) Define total pressure force and centre of pressure. Prove that the centre of pressure always lies below centre of gravity for a vertical plane surface immersed in a liquid. [2+6]
b) A rectangular plane surface 3m wide and 5m deep lies in water in such a way that its plane makes an angle of 60° with the free surface of water. Determine the total pressure force and position of centre of pressure when the upper edge is 2m below the free surface. [8]
3. a) State Bernoulli's theorem. What are the assumption of Bernoulli's theorem? Explain H.G.L. and E.G.L. [2+2+4]
b) A 30cm diameter pipe, conveying water, branches into two pipes of diameters 20cm and 15cm respectively. If the average velocity in the 30cm diameter pipe is 2.5 m/sec. Find the discharge in this pipe. Also determine the velocity in 15cm pipe if the average velocity in 20cm diameter pipe is 2 m/sec. [8]

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competition and summaries of specialty seminars at the 27th Congress of the International Association for Hydraulic
Research IAHR held in San Francisco California August 10 15 1997 This collection contains 12 papers and four summaries
that relate to the conference theme Water for a Changing Global Community The papers resulted from the John F Kennedy
Student Paper Competition The competition was established by the IAHR Council in 1992 to honor the memory of Professor
John F Kennedy a prominent educator and researcher in the international hydraulics community The student papers cover
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