Roll No.

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Total No of Questions : 8 Total No. of Printed Pages : 2

EIS-199

B.E. (VIth Sem.) (CGPA) Civil Engg. Exam.-2015

FLUID MECHANICS - II

Paper - CE-601

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt any 5 questions. All question carry equal marks. 5 × 12 marks = 60

Q.I Write different types of draft tube and its theory.

Q.II Explain Multistage Centrifugal pump.

Q.III Describe Hydraulic accumulator.

Q.IV Describe in brief.

(i) Hydraulic Torque Controller

(ii) Air Lift Pump

(iii) Gear Wheel Pump

(iv) Hydraulic Lift

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Q.V Find the velocity of flow and rate of flow of water through a rectangular channel of 6 m wide and 3 m deep when it is running full. The Channel & having bed stope as 1 in 2000. Take Chezy's const. C = 55

Q.VI What are the Conditions for Maximum Velocity for Circular Section.

Q.VII A Centrifugal pump is to discharge 0.118 m^3/s at a speed of 1450 rpm against ahead of 25m. The impeller diameter is 250 mm. Its width at outlet is 50 mm and manometric efficiency is 75% Determine the vane angle at the outer periphery of the impeller.

Q.VIII Define—Unit Head, Unit Discharge, Unit power, Specific Speed, Guide Vane, Scroll Casing, Shaft power, Runner power, Braking jet in case of turbine.
