Roll No.

2154

B. E. 4th Semester (Civil Engg.)

Examination – December, 2011

FLUID MECHANICS - II

Paper: CE-206-E

Time: Three hours]

Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions. All questions carry equal marks.

- A liquid flows through a pipe with turbulent flow. Find a what distance from pipe wall the local velocity reaches the mean velocity.
- 2. A semi circular channel 1.25 meter wide 1/0 laid at a slope of 1 in 5000. Find the discharge of channel taking C = 60.

3.	cub	rectangular channel 4 meter wide discharges ic of water. If the specific energy need is 2 ter. Find possible depth of flow.	
4.	Write a short note on the following:		
	(a)	Type of slopes & characteristic,	10
	(b)	Resistance equations.	10
5.	-	plain with diagram the construction, working of pump with merits & demerits & applications.	ai:
6.	(a)	What do you mean by width of wheel or var Can the width of wheel at inlet and outlet different.	
	(b)	Differentiate between Water Power & Branch Power of a turbine.	ake 10
7.	450: velo	external die of an inward flow reaction turbing mm. The width of wheel at inlet is 120mm ocity of flow at inlet is 1.2 m/sec. Find the rate we passing through the turbine.	&
8.	(a)	Explain the working of air vessels.	10
	(b)	Write a short note on Submersible pumps.	10