

Roll No.

24196

B.Tech 4th Semester (Civil Engineering)

Examination – May, 2013

FLUID MECHANICS - II

Paper: CE-204-F

Time : Three hours]

[Maximum Marks : 100

Before answering the question, 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.

1. Explain in detail Newtonian and non- Newtonian fluids with suitable example & suitable application. 20
2. (a) Explain the concept of fluid kinematics. 10
(b) Explain fluid properties with suitable example. 10
3. (a) Explain fluid statics with suitable example. 10
(b) What is Turbulent flow its application & examples ? 10

4. (a) Explain types of flow with diagram. 10
(b) Explain stability of floating. 10
5. Derive & example continuous equation with suitable example & application. 20
6. (a) Explain kinematic & momentum corrective factors. 10
(b) Explain pressure gradient. 10
7. Explain types of orifices with suitable diagram & application and also explain its merits and demerits. 20
8. (a) Explain total energy lines. 10
(b) What is stream line flow ? Explain its importance. 10