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

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