

Roll No.

2154

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

Examination - May, 2013

FLUID MECHANICS-II

Paper : CE-206-E

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 complain in this regard, will be entertained after examination.

Note : Attempt any five questions out of eight.

1. (a) Explain Shear stress in turbulent flow. 10
(b) Explain Prandtl Mixing Length Hypothesis. 10
2. (a) Explain the concept of fluid and flow. 10
(b) Explain properties of fluid. 10
3. Explain Eulerion and Langrangian equations of fluid flow with suitable example and merits and demerits and also explain its applications. 20
4. Explain construction, principle and working of venturimeter with suitable example along with merits and demerits. 20

5. (a) Explain source sink pair and doublet. 10
(b) What is potential flow ? Explain its concept. 10
6. (a) Explain with example Reynold number. 10
(b) Explain Boundary layer flow with examples. 10
7. (a) Explain Laminer flow with example and suitable diagram. 10
(b) Explain the types of Laminer flow with suitable diagram and suitable examples. 10
8. (a) What is streamline flow ? Explain its advantages and disadvantages with suitable examples. 10
(b) What is airfoil ? Example its concept and importance. 10