CE 306 (AE 305/ME 305)

III Semester Diploma (Automobile/Civil/Mechanical) Examination, August 2011
ENGINEERING MECHANICS LAB

Time : 3 Hours Max. Marks : 75

Instructions** : 1) Answer **all** questions in Part – **A** and Part – **B** either (**a**) or (**b**) in Part – **C.
*2) **Each** question carries **1 (one)** mark in Part – **A** and **5 (five)** marks in Part – **B** and **50 (Fifty)** Marks in Part – **C**.*

PART – A

I. Answer **all** questions : **(5×1=5)**

1) Define Hardness.
2) Define ductility.
3) What is the bending ?
4) Define deflection.
5) Define impact load.

PART – B

II. Answer **all** questions : **(4×5=20)**

6) State and explain Bernoulli's theorem.
7) Sketch and explain the impulse turbine.
8) Explain the performance characteristics of reciprocating pump.
9) Explain impact test on beams.

PART – C

III. Answer **any one** from **each** question : **(1×50=50)**

10) a) Performance test on reaction turbine.

OR

b) Performance test on reciprocating pump.