



Reg. No. : 09403017

Name :

Sixth Semester B.Tech. Degree Examination, May 2012
(2008 Scheme)

Branch : Civil Engineering

08.601 : DESIGN OF STEEL STRUCTURES (C)

Time : 3 Hours

Max. Marks : 100

Instruction : Use of IS 800-2007, 801-1975 and 811-1987 and structural steel tables **permitted**.

PART – A

I. Answer **all** questions.

- 1) Explain the concept of limit state method of design.
- 2) Distinguish between bearing type and friction slip bolted connections.
- 3) Explain the various failure modes of a tension member which govern its design capacity.
- 4) What are the different elements of a plate girder ? Discuss the importance of each element.
- 5) Briefly describe the types of foundations used for steel columns.
- 6) What is plastic hinge ? Find the length of plastic zone of a simply supported beam with central concentrated load.
- 7) Explain the various theorems of plastic analysis.
- 8) Discuss the applications of light gauge steel sections. **(8×5=40 Marks)**

P.T.O.