

# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

## III B.Tech II Semester Model Question Paper DESIGN OF STEEL STRUCTURES Civil Engineering

Time: 3 hours

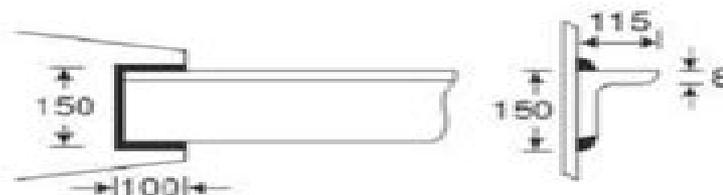
Max Marks: 75

Answer any FIVE Questions  
All Questions carry equal marks

**NOTE:** Code of Practice: IS: 800-2007, IS: 875 & Steel Tables are Permitted

1. a) Briefly explain the possible limit states that are considered in the limit state method of design of steel structures?  
b) Briefly explain the various structural stability checks considered by the IS Code? [7+8]
2. a) How do you classify the bolted Connections?  
b) Two plates 12 mm and 20 mm thick are to be joined by Double Cover Butt joint. Design the joint for the following data.
 

Factored design load	750 kN	
Bolt diameter	20 mm	
Grade of steel	Fc 410	
Grade of bolts	4.6	
Cover plates 2 (one on each side)	8 mm thick	[5+10]
3. a) Explain the various factors affecting the strength of tension members?  
b) Compute the tensile strength of an angle section is a 150x115x8 mm of Fc 410 grade of steel connected with the gusset plate as shown in fig.... For the following cases:
  - a.) Gross section yielding [5+10]
  - b.) Net section rupture



4. A column 4m long has to support a factored load of 6000 kN. The column is effectively held at both the ends and restrained in direction at one of the ends. Design the column using

# Civil Engineering Structural Steel Design Question Paper

**Alan Williams**



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