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06/07/12

**Eighth Semester B.E. Degree Examination, June/July 2012**  
**Design and Drawing of Steel Structures**

Time: 3 hrs.

Max. Marks: 100

*Notes: 1. Assume AISC full plasticity theory code book.*

*2. Use of Fe = 250 = 250 MPa steel tables permitted.*

*3. Missing data, if any, may be suitable assumed.*

**PART – A**

1. a. A secondary beam of I.S.J. – 400 (Wt 110 kg) is connected to the web of main beam I.S.J.II – 500 (Wt 180 kg) on one side of the main beam, by laced channel connections. The top flange of both the beams are maintained at the same level. Two beam angles of I.S.A. – 100 = 100 = 10 mm of required length are used for connection. Each beam angle is connected to the web of secondary beam through 4 bolts of 20 mm diameter and to the web of main beam through 4 bolts of 16 mm diameter. Draw to a suitable scale. (107 Marks)
- b. Elevation of main beam with section of secondary beam. (08 Marks)
- c. Elevation of secondary beam with section of main beam. (08 Marks)
2. a. The beam I.S.J.II – 400 is connected to the column I.S.W.II – 400 through the moment connection. The beam is connected to the flange of the column. The seat angle used for the connection is I.S.A. 100 = 200 = 10 mm. Total 6 number of 20 mm dia bolts are used to connect the seat angle to the column flange. The bolts are provided in three rows. A clip angle is used to connect the flange of column to the web of beam. 2 number of 16 mm  $\phi$  bolts are used. The top size of clip angle is I.S.A. 75 = 75 = 6. draw to a suitable scale. (07 Marks)
- i. Front view showing s/w of beam. (08 Marks)
- ii. Side view showing elevation of beam. (08 Marks)
3. a. A built up column consisting of 2 – I.S.W.C – 350 (Wt 421 kg) placed back to back at the distance of 200 mm. The members of built up column are connected by battens of ISF 60 = 10 mm with spacing of 100 mm c/c. The suitable length of battens as to accommodate the width length of 200 mm, and web size of 6 mm (other width) on each of the I.S.W.C. Draw to a suitable scale. (08 Marks)
- i. Plan. (08 Marks)
- ii. Front elevation showing batten length. (10 Marks)
- b. Following are the details of gusset plate:
- i. Built up column : 2 – I.S.W.C – 400 at a spacing of 125 mm between webs.
- ii. Size of base plate : 400 mm  $\times$  750 mm
- iii. Thickness of base plate : 20 mm
- iv. Corner angles I.S.A. 100 = 100 = 12 with longer leg connected to gusset plate
- v. Thickness of gusset plate : 12 mm
- vi. 16 bolts of 20 mm dia connect gusset angles to gusset plate. 16 bolts of 20 mm dia connect gusset angles to the column.
- vii. Anchor bolts 20 mm  $\phi$  = 8 number
- Draw to a suitable scale. (08 Marks)
- i. Elevation showing flanges of column. (08 Marks)
- ii. Sectional plan. (10 Marks)

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*The Reserve Marine ,1960*

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