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06/07/22

Eighth Semester B.E. Degree Examination, June/July 2013
Design and Drawing of Steel Structures

Time: 4 hrs.

Max. Marks: 100

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

2. Use of Fe – 400 = 250 MPa steel tables permitted.

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

PART – A

1. a. A secondary beam of ILS 410 – 400 (p. 10) is connected to the web of main beam ILS 410 – 500 (p. 10) 5/16 m 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 ISA – 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)
- Elevation of main beam with section of secondary beam. (08 Marks)
- Elevation of secondary beam with section of main beam. (08 Marks)
- b. The beam ILS 410 – 400 is connected to the column ISWB – 400 through the moment connection. The beam is connected to the flange of the column. The seat angle used for the connection is ISA 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 ϕ bolts are used. The top size of clip angle is ISA 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)
2. a. A built up column consisting of 2 – ISMC – 350 (p. 42) 5/16 m 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 is to accommodate the width length of 200 mm, and web size of 6 mm (other width) on each of the ISMC. 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 – ISWT – 400 at a spacing of 3.25 mm between webs.
- ii) Size of base plate : 400 mm \times 750 mm
- iii) Thickness of base plate : 20 mm
- iv) Corner angles ISA 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 ϕ – 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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