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06C/VB2

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

Time: 3 hrs.

Max. Marks: 100

Notes: 1. Assume AISC full plasticity theory unless stated.

2. Use of Fe – 410 or 460 steel shall be permitted.

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

PART – A

1. a. A secondary beam of I.S.F. 400 is fixed into steel plate is connected to the web of main beam I.S.F. 800 (200 mm depth) 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. (87 Marks)
 Elevation of main beam with section of secondary beam. (48 Marks)
 Elevation of secondary beam with section of main beam. (39 Marks)
- b. The beam I.S.F. 400 is connected to the column I.S.F. 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 ϕ bolts are used. The top size of clip angle is I.S.A. 75 – 75 – 6. draw to a suitable scale. (87 Marks)
 (i) Front view showing s/w of beam. (48 Marks)
 (ii) Side view showing elevation of beam. (39 Marks)
2. a. A built up column consisting of 2 – I.S.F.C. – 350 (200 mm depth) placed back to back at the distance of 200 mm. The members of built up column are connected by battens of I.S.F. 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 I.S.F.C. Draw to a suitable scale. (48 Marks)
 (i) Plan. (48 Marks)
 (ii) Front elevation showing batten length. (10 Marks)
- b. Following are the details of gusset plate:
 (i) Built up column : 2 – I.S.F.C. – 400 at a spacing of 325 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. 150 – 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. (48 Marks)
 (i) Elevation showing flanges of column. (48 Marks)
 (ii) Sectional plan. (10 Marks)

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