

SECTION – IV

8. Design an I section purlin for an industrial building, located at Chennai, with Galvanised iron sheets as the roofing material : 15

Span of the truss = 13 m

Spacing of trusses = 6m

c/c Spacing of purlins = 1.2m

c/c Wind pressure intensity = 2 kN/m².

Weight of GI sheets = 130N/m²

Grade of steel : Fe 410

9. Write down design steps of framed and seat connections. 15

3205-1500-(P-4)(Q-9)(22)

(4)

Roll No.

3205

B. Tech. 5th Semester (Civil Engg.)

Examination – December, 2022

DESIGN OF STEEL STRUCTURE

Paper : PCC-CE-309-G

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Section. Question No. 1 is *compulsory*. All questions carry equal marks. Assume suitable data where required or missing. Use of code IS 800-1984 and Steel Table is allowed.

1. (i) What is stress-strain curve of steel ?
- (ii) Sketch different types of bolted connections.

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P. T. O.

