

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination - Sept./Oct. 2019

Course: B. Tech in Civil Engineering

Subject Name: Design of steel structure.

Max Marks: 20

Instructions to the Students:

Date: -28-09-2019

Sem: I

Subject Code: BTCVC501 A

Duration: - 1 Hr.

7. Necessary data is given in the respective questions. If such data is not given, it means that the

Illustrate your answers with neat sketches, diagrams etc. where ever necessary.

Use IS 800-1984, Steel table is permitted.

knowledge of that data is a part of the examination.

 Draw schematic production of structural steel in integrated steel plants. (Level/CO)

5. Why minimum pitch values are specified in IS code; C1/C01 C1/C01 C1/C01 C1/C02

C2/C02 C2/C02 C2/C01

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Explain rivet Value?

Explain Slenderness ratio? What are the Codal provisions for it List out Advantages of Steel structure over RCC structure?

Solve Any Two of the following.

6. Why are fillet welds often used at site?

4. What is DL, LL, and WL? Relevant IS codes used.

Distinguish between analysis and design. 2. What are the types of structural steel?

Solve Any One of the following.

A Tie member in a bracing system consists of two angles ISA 75 x 75 x 6

bolted to 10 mm thick gusset plate. One on each side using a single row of

bolt. Determine the tensile capacity of the member of bolts required?

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length required, Draw in details.

*** End ***

Continuous strut member of truss for 3meter length & what is welded Compute Compressive capacity of 2 ISA 200 x 200 x 10. Used as

C3/C03

C3/C03

Marks 6