



- N.B. (1) Question No. 1 is compulsory and attempt any four from remaining questions.
 (2) Use of IS 800-2007 and Steel table is allowed.
 (3) Assume suitable data wherever necessary.
 (4) Figures to the right indicate full marks.

1. Design main Tie 'AL' as shown in figure, using load combinations as per IS 800-2007. 20

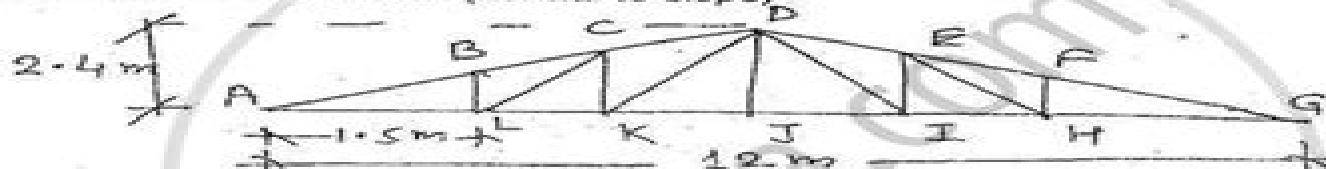
Assume following data for design :-

c/c spacing of trusses = 4 m

Dead load on truss (wt. of truss + purling + self wt and bracing) = 400 N/m^2 on plan

Live load as per IS 875

Wind load = -1200 N/m^2 (normal to slope)



OR

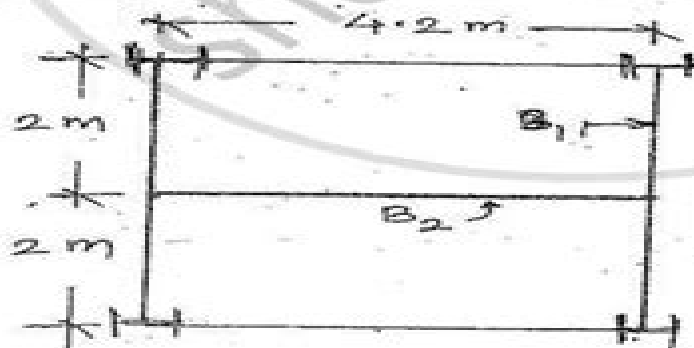
Design the beam 'B₁' as laterally supported, use following data for design :-

Thickness of slab = 140 mm

Live load on slab = 3 kN/m^2

All beams supports a 150 mm thick brick wall, 3.5 m high

Density of masonry is 20 kN/m^3 and that of concrete is 25 kN/m^3 respectively.



2. Design a gusseted base for a column ISHB 400 with cover plates of $400 \times 18 \text{ mm}$ on each flange. The column carries a factored load of 3200 kN . The grade of concrete for the block is M15. Also design the bolted connection of gusset plate and column flanges. Draw plan, elevation and side view of gusseted base. Use 4.6 grade 20 mm diameter bolts. 20

Civil Engineering Structural Steel Design Question Paper

Michael Hoelscher



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