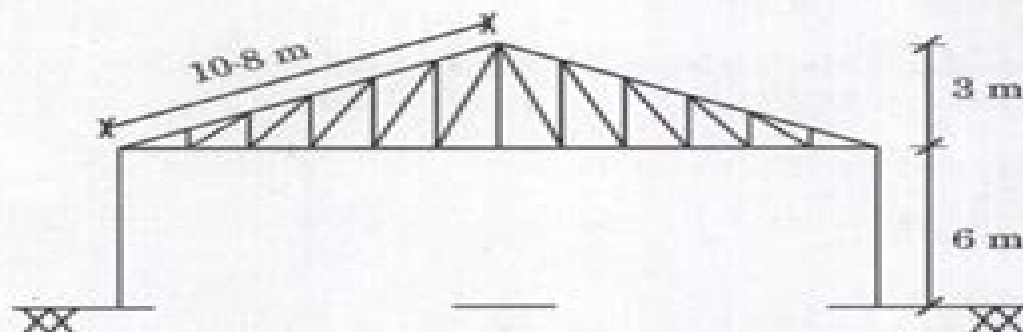


- Q1.** (a) (i) Describe how stones are preserved. 6
- (ii) What are the advantages and disadvantages of fibre reinforced concrete? 6
- (b) A factory shed of size $40\text{ m} \times 18\text{ m}$ is to be constructed at New Delhi with roof trusses. Calculate the nodal wind force on a roof truss of span 18 m and central rise of 3 m . The spacing of roof truss is 4 m , basic wind speed $= 50\text{ m/s}$, $K_1 = 1$, $K_2 = 0.9$ (up to 10 m ht and category-II), $K_3 = 1$, $K_4 = 1$, $K_a = 0.9$, $K_c = 0.9$, $K_d = 0.9$. For wind angle 0° , take $C_{pe} = -1.2$ (windward side), $C_{pe} = -0.4$ (leeward side). Assume wall opening is less than 5% . Purlins are located at the node points. Show the forces in a sketch of truss for wind angle 0° only. 12



- (c) A simply supported prestressed concrete beam of span 12 m and size $300 \times 700\text{ mm}$ carries uniformly distributed load of 20 kN/m . Suggest a suitable cable profile and the prestressing force so that no tension is developed in the beam. Assume density of concrete to be 24 kN/m^3 . Maximum eccentricity for the cable to be provided is 200 mm . 12
- (d) A metallic rod 6.25 m long and 35 mm in diameter is subjected to an axial tensile load of 65 kN . Determine the change in dimension and volume of the rod. Assume modulus of elasticity of metal as $E = 2.10 \times 10^5\text{ N/mm}^2$ and Poisson's ratio $= 0.26$. 12

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