

6. Design a rectangular pre-tensioned concrete beam of span 6 m subjected to working loads of 25 kN each at the one-third span points. The permissible stresses in tension are zero at transfer and 1.5 N/mm^2 under working loads. The permissible tensile stress in the prestressing wires is 1500 N/mm^2 . Assume the loss of prestress is 15%. [10]

OR

7. A beam of unsymmetrical I-section, top flange 300 mm wide and 75 mm thick; bottom flange 200 mm wide and 75 mm thick; the thickness of the web is 60 mm; the total depth of the beam is 400 mm. The beam is subjected to a uniformly distributed live load of 25 kN/m . Determine the stresses at the mid-span section if the effective prestressing force is 600 kN located at 50 mm from the soffit of the beam. [10]

8. A prestressing force of 500 kN is to be transmitted through a distribution plate $150 \text{ mm} \times 150 \text{ mm}$, the centre of which is located at 125 mm from the bottom of an end block of section $150 \text{ mm} \times 400 \text{ mm}$. Determine the position and magnitude of maximum tensile stress on a horizontal section passing through the centre of the distribution plate. [10]

OR

9. The end block of a post-tensioned concrete member is of size $450 \text{ mm} \times 450 \text{ mm}$. Four cables, each made up of 8 wires of 10 mm diameter strands and carrying a force 1500 kN are anchored by plate anchorages, $200 \text{ mm} \times 200 \text{ mm}$, located with their centres at 150 mm from the edges of the end block. Design suitable anchorages for end block. Assume the grade of concrete is M 45, the strength of concrete at transfer is 25 N/mm^2 and the yield strength of anchorage reinforcement is 500 N/mm^2 . [10]

10. Determine the flexural strength of a composite T-beam section consists of a pre-tensioned rectangular beam, $150 \text{ mm} \times 300 \text{ mm}$, with a cast in-situ slab 450 mm wide and 75 mm deep laid over the beam. The beam contains 12 wires of 5 mm diameter located 50 mm from the soffit. The tensile strength of steel is 1600 N/mm^2 and the strength of concrete in the slab is 30 N/mm^2 . [10]

OR

11. Calculate the short-term and long-term deflections of a simple supported prestressed concrete beam of rectangular cross-section $300 \text{ mm} \times 500 \text{ mm}$ and span 16 m is prestressed by a parabolic cable with an eccentricity of 150 mm above the neutral axis at the supports and 150 mm below the neutral axis at the mid-span. The prestressing force in the steel cable is 1000 kN with an initial stress of 1250 N/mm^2 . The beam is subjected to uniformly distributed load of 25 kN/m in addition to a concentrated load of 100 kN at its mid-span. Adopt M40 grade of concrete, loss of prestress is 20% and creep coefficient is 2. [10]

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