

Ques1-why high strength steel and concrete used in p.s.c?

Ques2-explain freyssinet anchorage system of post tensioning?

Ques3-A p.s.c beam 300mm * 600 mm is prestressed by mean of 14 mm diameter bars located 250mm from soffit of the beam. If effective stress in wire is 700 N/mm^2 , what is maximum B.M can apply so that no tension at soffit?

Ques4- a pretension prestressed concrete beam rectangular section have to support ultimate moment 120 kNm. Design the section. $f_{ck}=50 \text{ N/mm}^2$ and $F_p = 1600 \text{ N/mm}^2$ if b=width and d=depth and assume X_u/d as 0.5?

Ques5- a pretension prestressed concrete beam rectangular section 200 mm wide to be design for 10kn/M imposed load, for a span of 15m. stress in concrete should not exceed 17 N/mm^2 in compression and 1.4 N/mm^2 in tension loss of prestress is 10%?

- a) The maximum depth
- b) Find minimum prestress and eccentricity of prestress?