

Assignment

1. Find the M_u of the rectangular beam of size 230mm X 600mm effective which is reinforced with 942mm² of steel at tension side. Use M20 concrete and Fe415 steel. Find also the safe load on beam if the effective span is 5m.
2. A beam 300mm X 500mm effective size carries a factored moment of 155 kNm. If concrete M20 and steel Fe500 are used, find the area of steel required.