

Assignment

1. An RC beam 230 x 500 mm overall in section, is reinforced with four 20mm dia bars on tension side and three 20 mm dia bars on compression side. The bars are at 50 and 40 mm centres from bottom and top edges of the beam respectively. Calculate the moment of resistance of the beam if $\sigma_{cbc} = 7 \text{ N/mm}^2$ and $\sigma_{st} = 190 \text{ N/mm}^2$