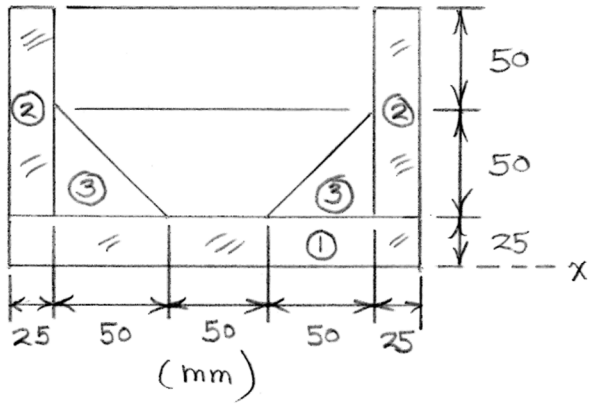
A/55



Comp.	A	d_x	$\bar{I}_x$	Ad_x^2
①	$200(25)$	$25/2$	$\frac{1}{12}(200)(25)^3$	781 250
②	$2[100(25)]$	75	$2[\frac{1}{12}(25)(100^3)]$	28 125 000
③	$2[\frac{1}{2}(50)(50)]$	$(25+\frac{50}{3})$	$2[\frac{1}{36}(50)(50^3)]$	+ 340 278

$$\begin{cases} \Sigma \bar{I}_x = 4\ 774\ 306 \\ \Sigma Ad_x^2 = 33\ 246\ 528\ \text{mm}^4 \end{cases}$$

$$I_x = \Sigma \bar{I}_x + \Sigma Ad_x^2 = 38{,}020{,}833\ \text{mm}^4$$

$$\text{or } \underline{38.0(10^6)\ \text{mm}^4}$$