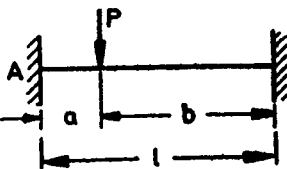
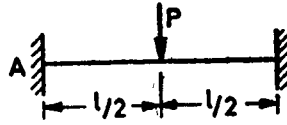
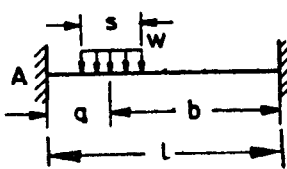
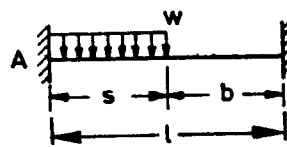
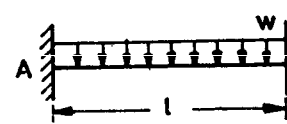
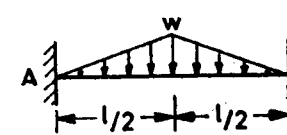
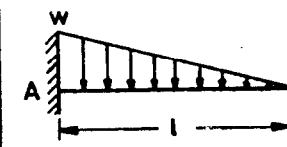
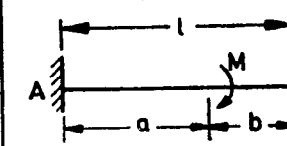
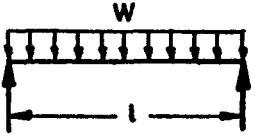
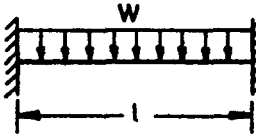
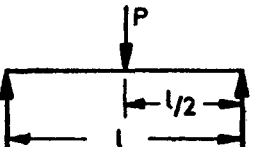
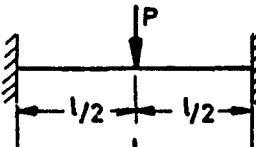
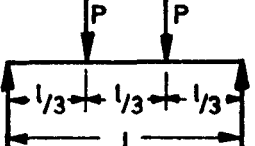
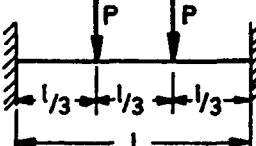
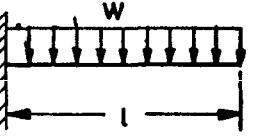
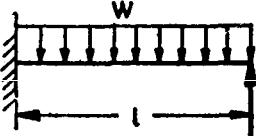
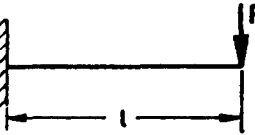
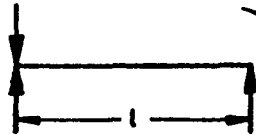


Table 97 FIXED END MOMENTS FOR PRISMATIC BEAMS

LOAD TYPE	$M_{FA}$	$M_{FB}$
	$+\frac{Pab^2}{l^2}$	$-\frac{Pa^2b}{l^2}$
	$+\frac{Pl}{8}$	$-\frac{Pl}{8}$
	$+\frac{ws}{12l^2} [12ab^2 + s^2(l-3b)]$	$-\frac{ws}{12l^2} [12a^2b + s^2(l-3a)]$
	$+\frac{ws^2}{12l^2} [2l(3l-4s) + 3s^2]$	$-\frac{ws^3}{12l^2} (4l-3s)$
	$+\frac{wl^2}{12}$	$-\frac{wl^2}{12}$
	$+\frac{5wl^2}{96}$	$-\frac{5wl^2}{96}$
	$+\frac{wl^2}{20}$	$-\frac{wl^2}{30}$
	$-M\frac{b}{l}(2-\frac{3b}{l})$	$-M\frac{a}{l}(2-\frac{3a}{l})$

Note:- w is the load per unit length

Table 98 DEFLECTION FORMULAE FOR PRISMATIC BEAMS

	$\frac{5}{384} \times \frac{Wl^3}{EI}$		$\frac{Wl^3}{384 EI}$
	$\frac{Pl^3}{48 EI}$		$\frac{Pl^3}{192 EI}$
	$\frac{23 Pl^3}{648 EI}$		$\frac{5 Pl^3}{648 EI}$
	$\frac{Wl^3}{8 EI}$		$\frac{Wl^3}{195 EI}$
	$\frac{Pl^3}{3 EI}$		$\frac{1}{16} \times \frac{Ml^2}{EI}$
Note:- W is total distributed load			