

Q - 3 (b) Draw influence line diagram for the force in the top chord & bottom chord of a Pratt truss having 6 panels each 3m square as shown in figure 4. [05]

Q - 4 Attempt any one/two. [05]

(i) Write short note on influence line diagram & its importance.

(ii) Draw influence lines for reaction in simply supported beam AB of Span L.

Section II

Q-1 Determine the deflection at C slope at A and maximum deflection. $E = 2 \times 10^5 \text{ N/mm}^2$ $I = 2000 \text{ cm}^4$. Figure 5 use Macaulay's method. 10

Q-2 Find deflection under the load and slope at A. for example shown in Figure 6. 10

Q-3 Calculate maximum positive and negative bending moments and their positions. 10

Figure 7.

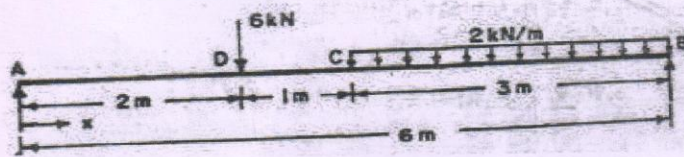


Fig. 5

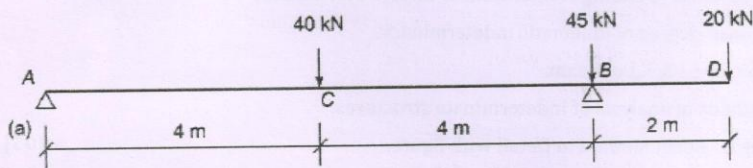


Fig. 6

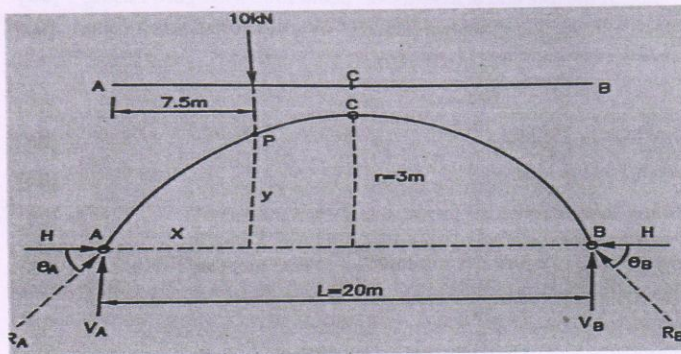
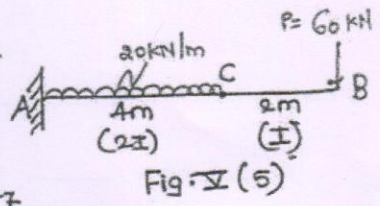
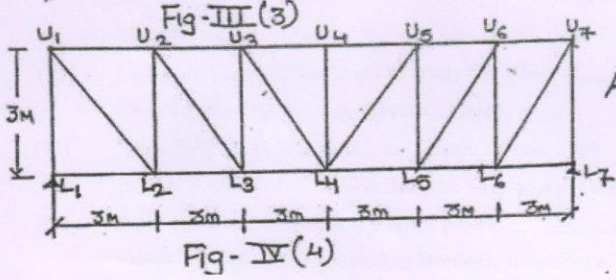
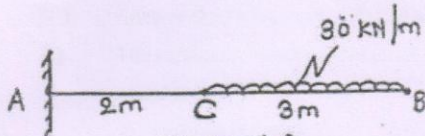
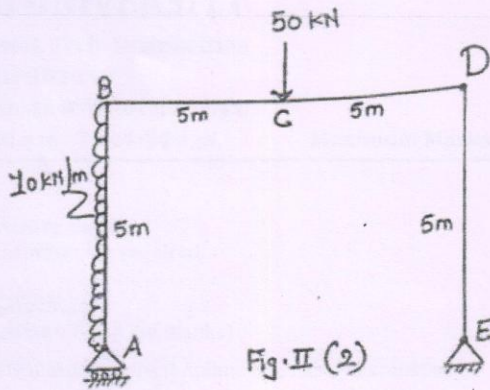
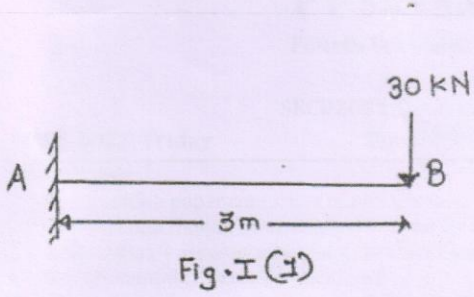


Fig. 7



20 kN
|