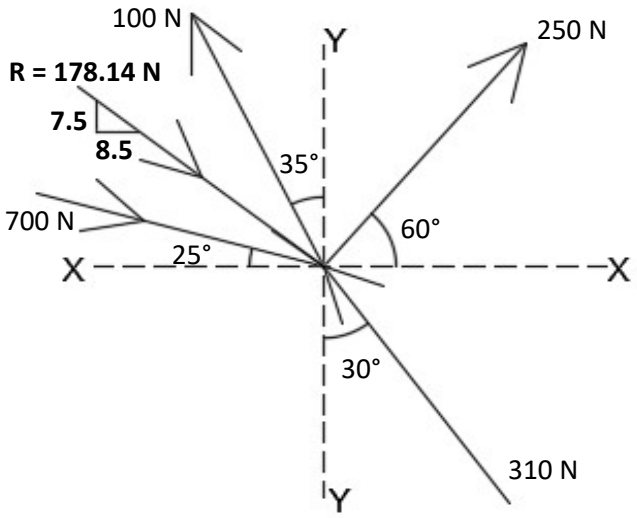
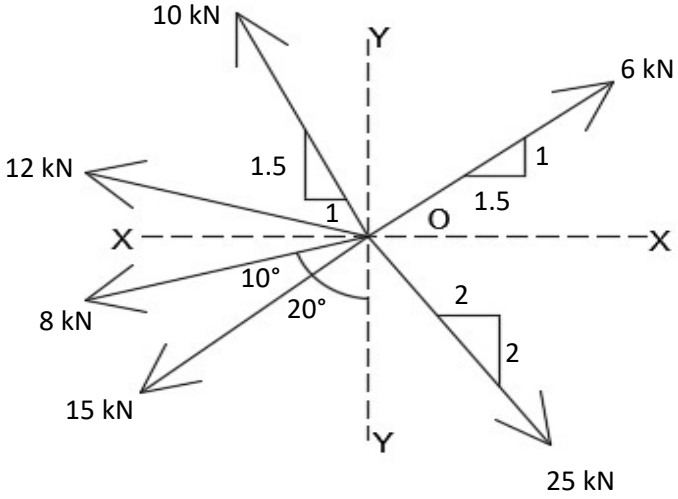
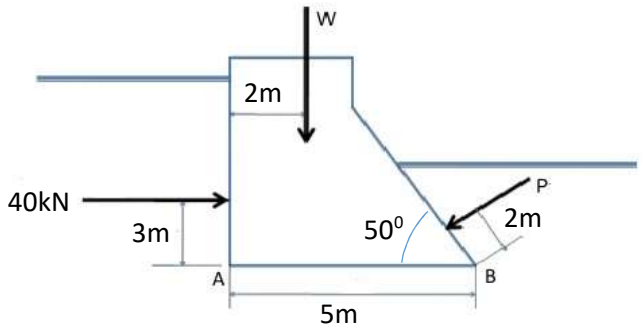
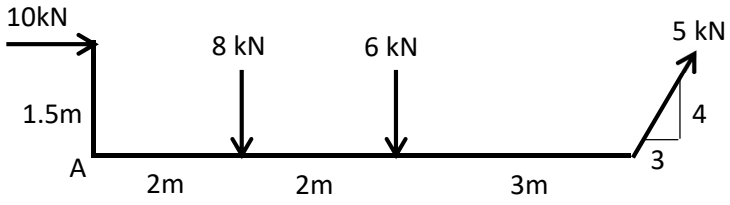
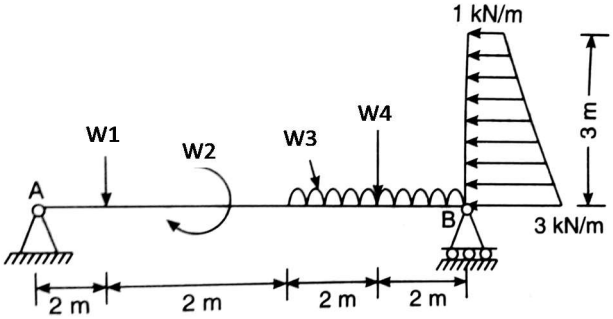
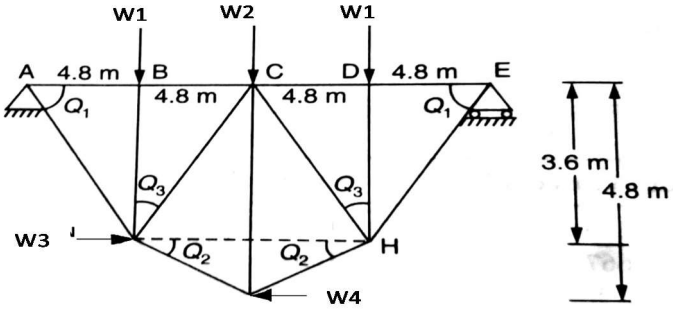
Subject (Name & Code): Mechanics of Solids (CIE 1051)

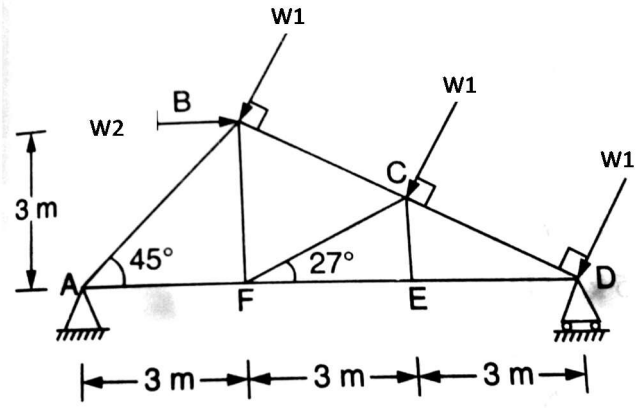
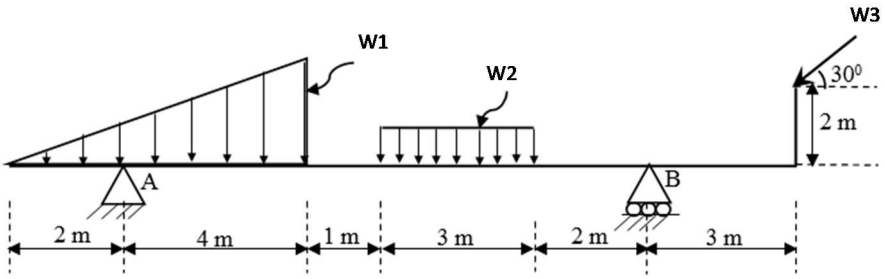
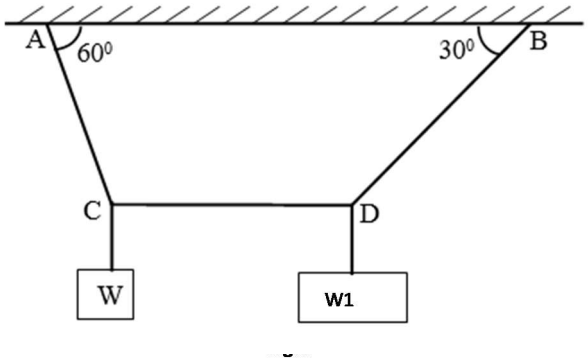
Date of Examination:

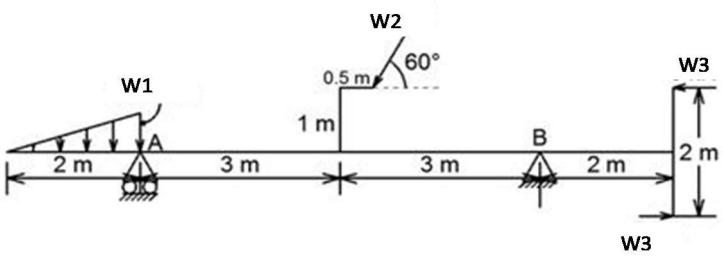
Assignment Test - I

Total Marks: 5

Q. No	Questions	Marks	CO
1	Determine the magnitude and direction of the unknown fifth force for the coplanar concurrent force system shown in Fig. 	5	1
2	Determine the magnitude and direction of the resultant for the coplanar concurrent force system shown in Fig. 	5	1

3	Locate the resultant w.r.t A for the section shown. Given W=150kN and P=25kN 	5	1
4	Locate the resultant of the force system shown w.r.t point A. 	5	1
5	Determine the support reactions for the beam shown. Take W1 = 2 kN, W2 = 4kN-m, W3 = 5 kN/m and W4 = 10 kN. 	5	2
6	Determine the support reactions for the figure shown. Take W1 = 30 kN, W2 = 60 kN, W3 = 20 kN and W4 = 20 kN. 	5	2

7	Determine the support reactions for the figure shown. Take W1 = 5 kN and W2 = 40 kN. 	5	2
8	Determine the reactions that develop at the supports A and B for the beam loaded as shown in fig. Take W1 = 3 kN/m, W2 = 5 kN/m and W3 = 5 kN. 	5	2
9	A chord supported at the points A & B carries a load of W1 = 30 kN at the point D, and a load W at the point C as shown in Fig. 5. Find the value of W for the portion CD to remain horizontal. 	5	2

10	Determine the reactions that develop at the supports A and B for the beam loaded as shown in figure. Take W1 = 10 kN/m, W2 = 10 kN and W3 = 5 kN. 	5	2