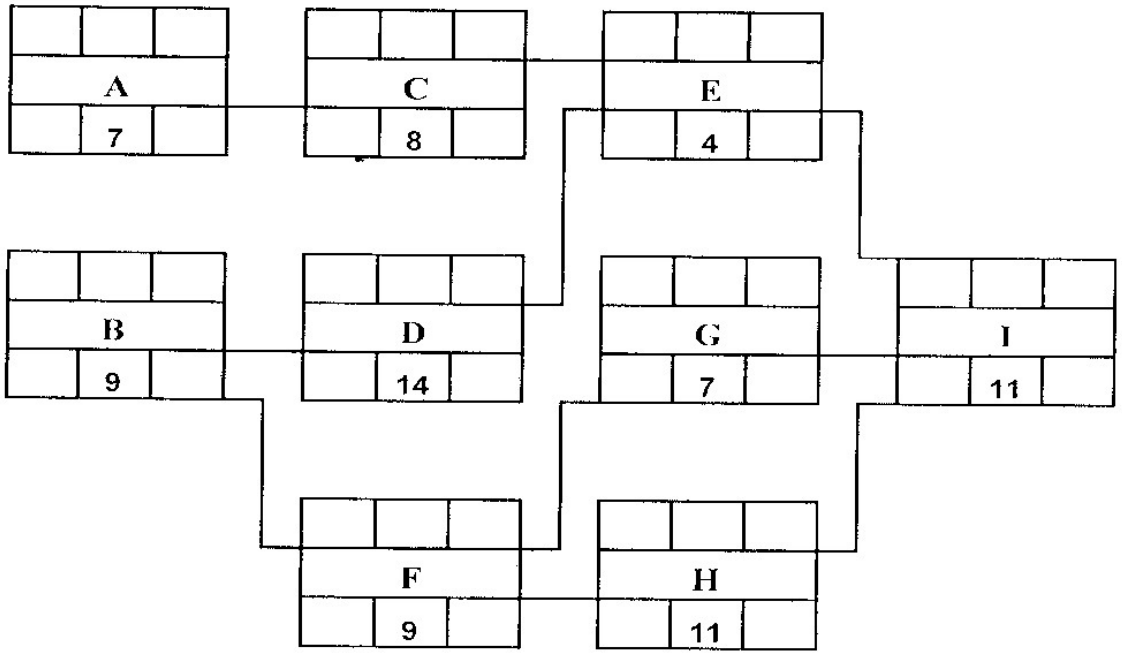
Question 1 (50% of max. credit)

The below network shows the activities of a small engineering project. Data of the project is given in the below table. The indirect cost is estimated to be SR 100/day. Draw the contract total cost/time curve and determine the optimum contract duration.

Activity code	Time (day)		Cost (SR)	
	normal	crash	normal	Crash
A	7	3	1500	2300
B	9	5	1400	1840
C	8	5	1280	1430
D	14	9	1100	1400
E	4	2	1200	1500
F	9	7	1500	1680
G	7	3	1200	1520
H	11	7	1750	1910
I	11	7	1500	1720



Cycle No.	Activity to shorten	No. of days shortened	Project duration	Total direct cost	Total indirect cost	Total cost