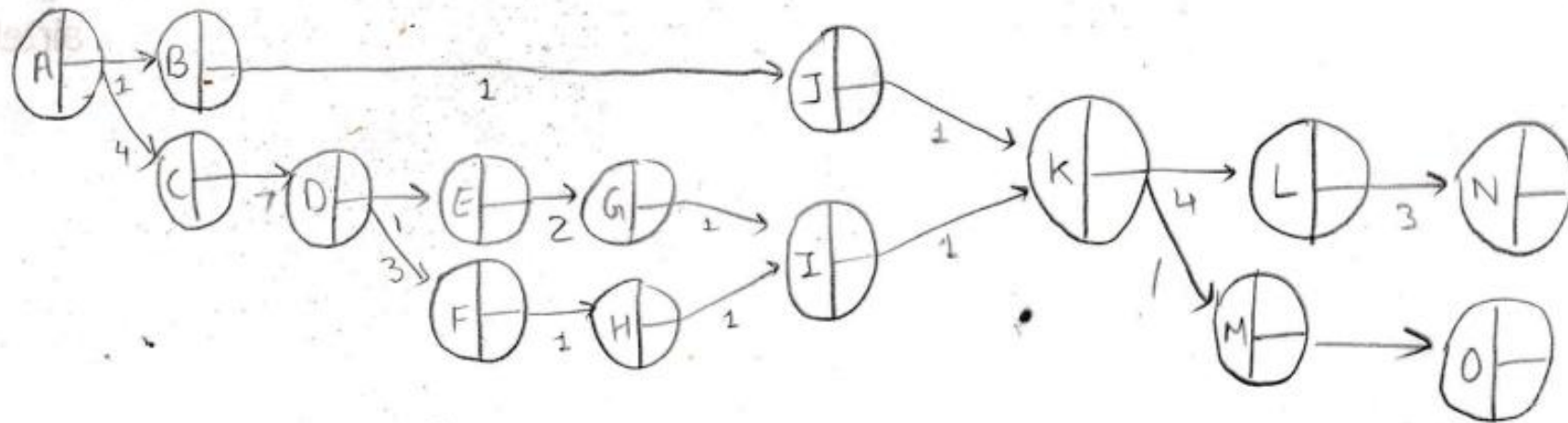


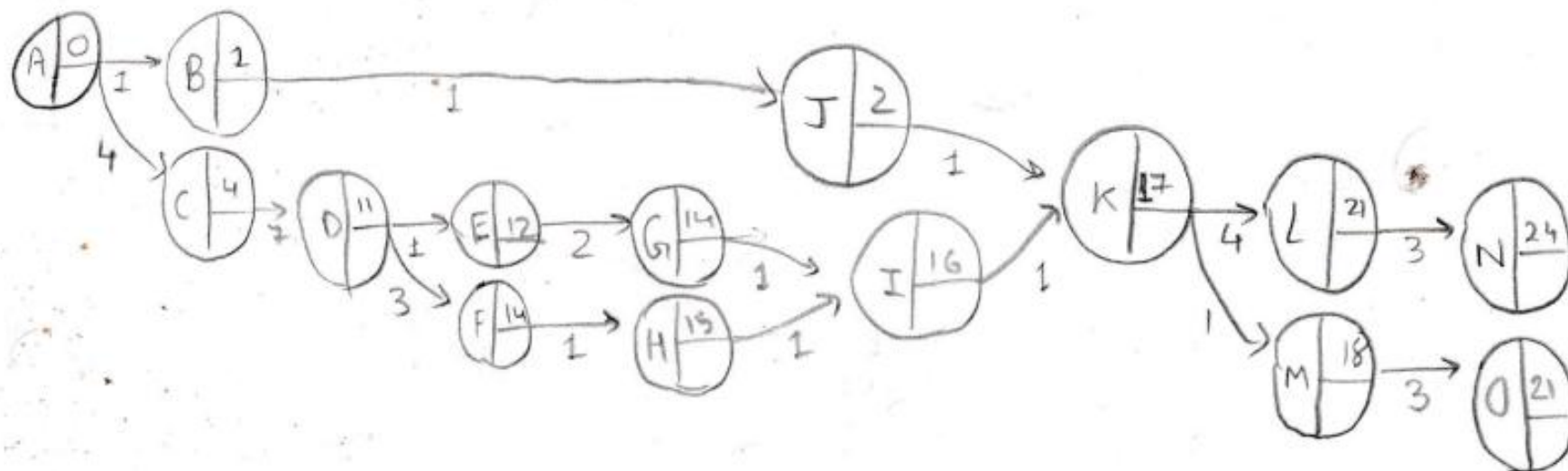
Q1

Task	Prec Tasks	Description	Time(hrs)
A	none	decide on date for party	1
B	A	book bouncy castle	1
C	A	send invitations	4
D	C	receive replies	7
E	D	buy toys and balloons	1
F	D	buy food	3
G	E	blow up balloons	2
H	F	make food	1
I	H, G	decorate	1
J	B	get bouncy castle	1
K	J, I	have party	1
L	K	clean up	4
M	K	send back bouncy castle	1
N	L	send thank you letters	3
O	M	donate unwanted gifts	3

Graph:

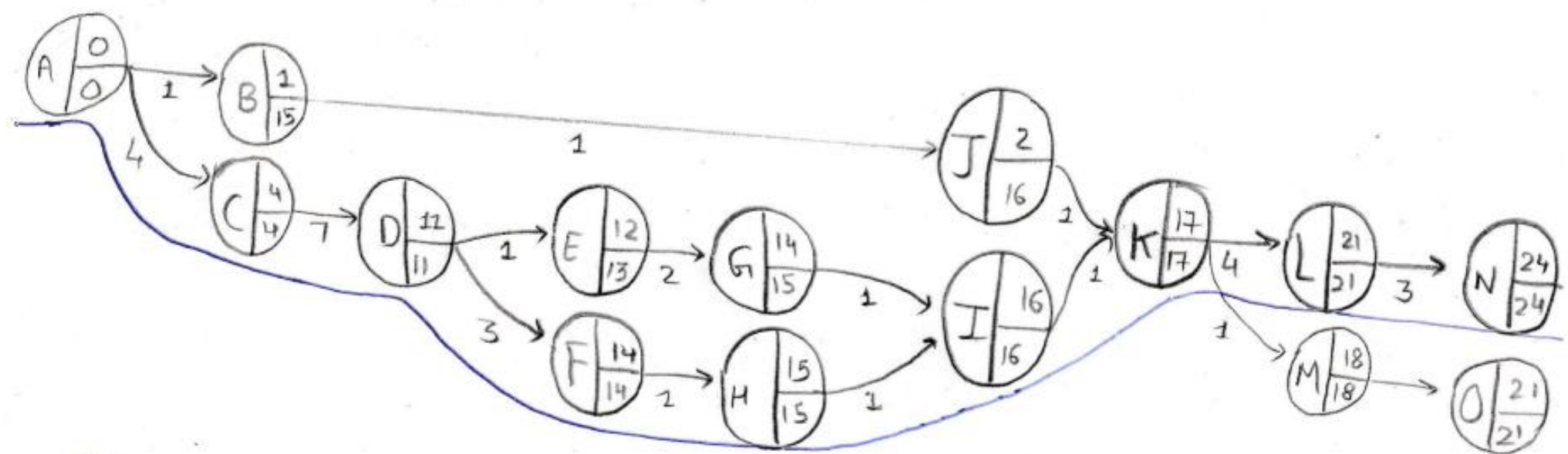


ECT:



19113

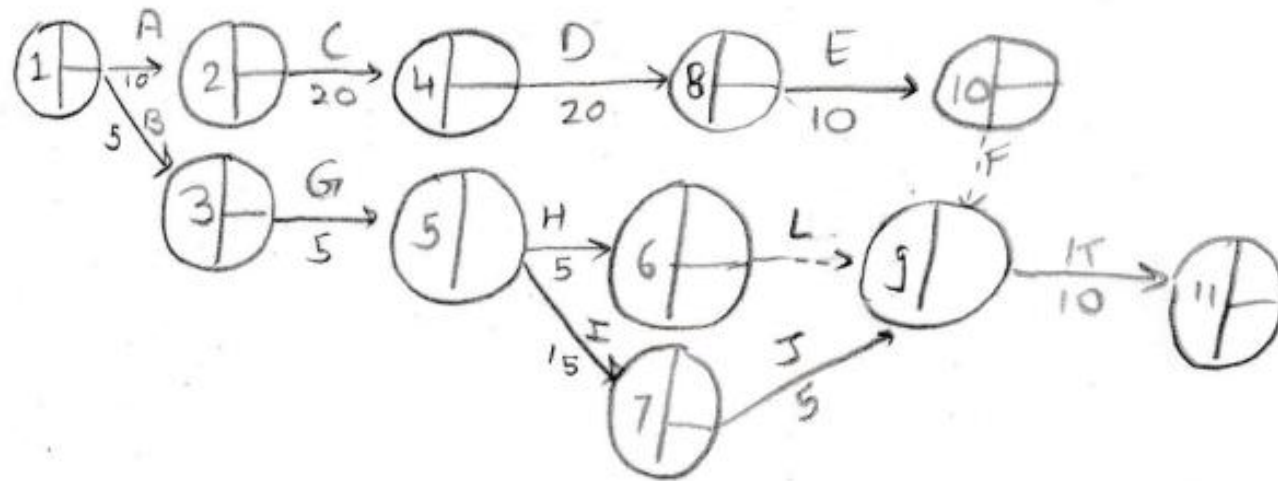
LCT:



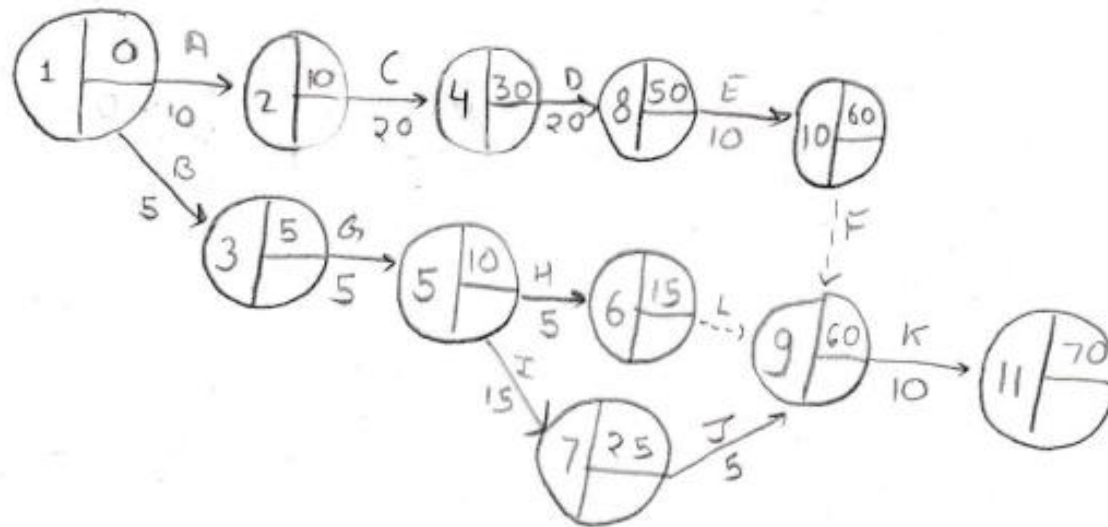
$$\begin{aligned}
 \text{CPM} &= A - C - D - F - H - I - K - L - N \\
 &= 4 + 7 + 3 + 1 + 1 + 1 + 4 + 3 \\
 &= 24
 \end{aligned}$$

Q2

Graph:

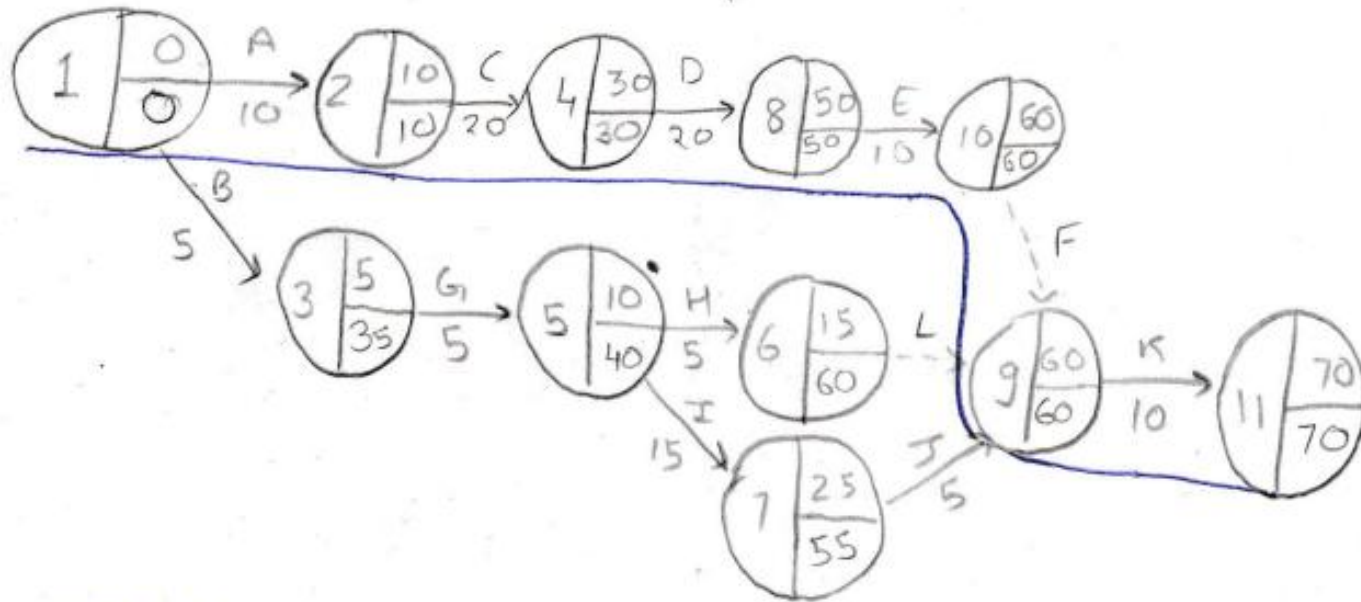


ECT :



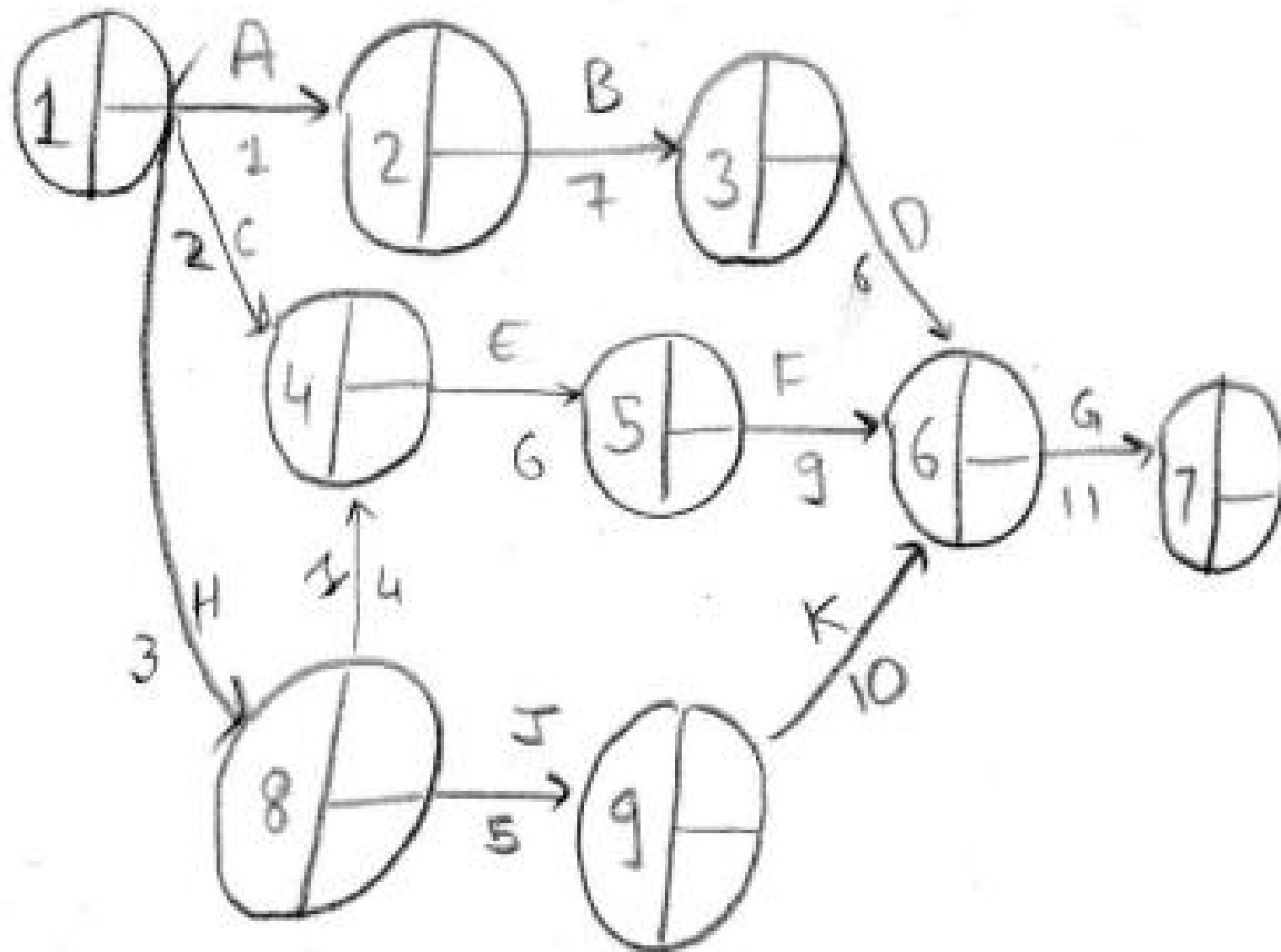
ECT = 70

LCT :

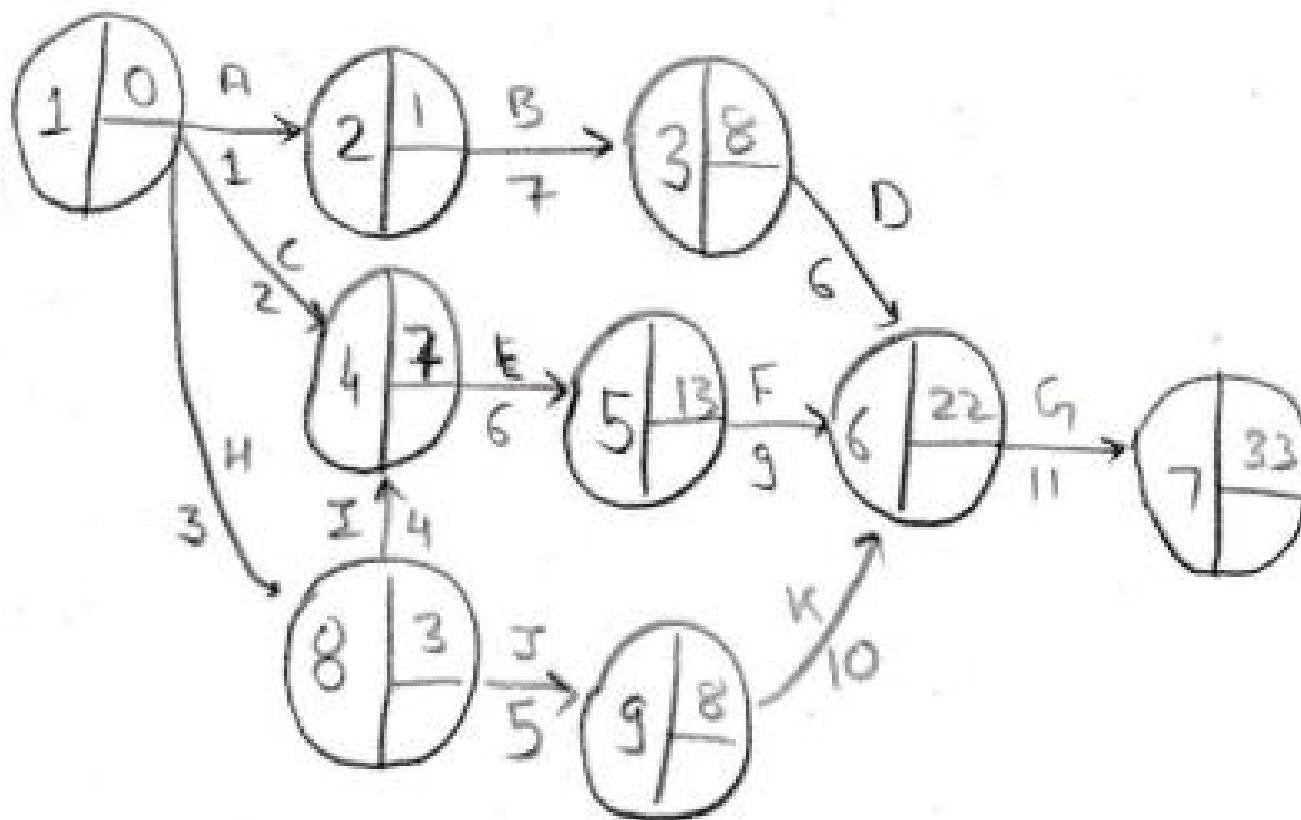


$$\begin{aligned} \text{CPM} &= 1 - 2 - 4 - 8 - 10 - 9 - 11 \\ &= 10 + 20 + 20 + 10 + 10 \\ &= 70 \end{aligned}$$

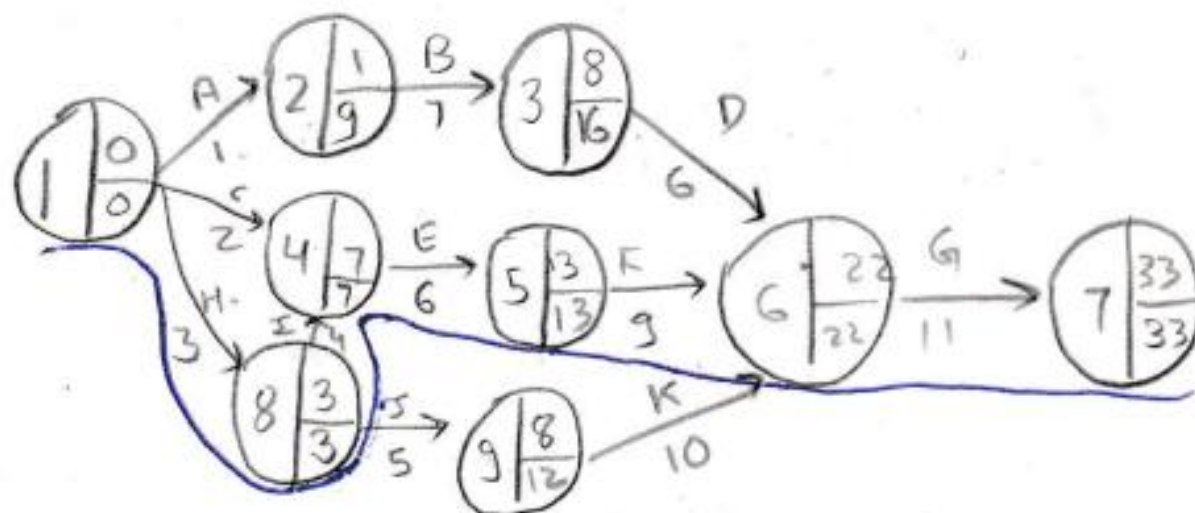
Graph:



ECT:



LCT.



~~CPM = 1-3-4-6-9~~

CPM = 1-8-4-5-6-7

= 3 + 4 + 6 + 9 + 11

= 33