

Software Engineering – Project Management

Given the list of tasks, predecessors and durations below

- Draw an activity network chart – 4 points
- Calculate the critical path – 3 points
- Determine the slack time – 3 points
- Draw a Gantt chart that shows the project schedule – 4 points

Task	Predecessor Task	Duration (days)
A	None	10
B	A	15
C	B	10
D	A	20
E	None	10
F	C, D	15
G	C	20
H	G	35
I	F	15
J	E, I	5

Task	Predecessors	Duration	Earliest Start	Earliest Finish	Latest Start	Latest Finish	Slack
T1	None	10	0	10	0	10	0
T2	T1	15	10	25	10	25	0
T3	T2	10	25	35	25	35	0
T4	None	20	10	30	30	50	20
T5	None	10	0	10	75	85	75
T6	T3, T4	15	35	50	50	65	15
T7	T3	20	35	55	35	55	0
T8	T7	35	55	90	55	90	0
T9	T6	15	50	65	70	85	20
T10	T5, T9	5	65	70	85	90	15

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