## **Software Engineering Lab Exam (ESC-591)**

Name: Sayan Kundu

Roll: 067

Semester: 5th

Year: 3rd

#### 10>

A. Consider the following activities with their durations:

- a) T1 (10 days)
- b) T2 (10 days)
- c) T3 (20 days)
- d) T4 (50 days)
- e) T5 (60 days)
- f) T6 (40 days)
- g) T7 (45 days)

The following precedence relations hold among the tasks:

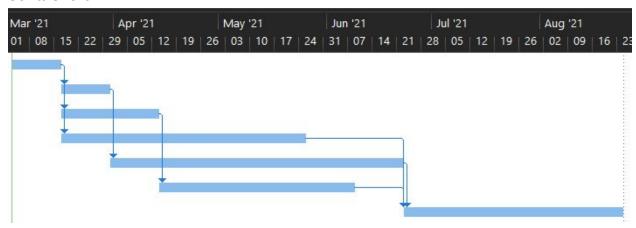
a<{b,c,d}; {b<e}; c<f; {d,e,f}<g.

Find out the following time parameter for each job: ES, LS, EF, LF, ST & MT for the project. Draw the Activity Network Diagram.

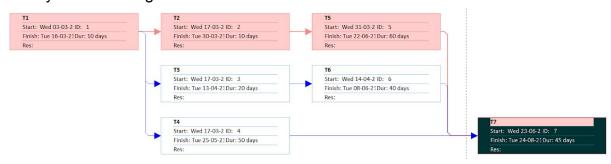
## Entry Table:

Task Nam ▼	Duration •	Start •	Finish -	Predecessors →	Early Start →	Early Finish 🔻	Late Start →	Late Finish →	Total Slack ▼
T1	10 days	Wed 03-03-21	Tue 16-03-21		Wed 03-03-21	Tue 16-03-21	Wed 03-03-21	Tue 16-03-21	0 days
T2	10 days	Wed 17-03-21	Tue 30-03-21	1	Wed 17-03-21	Tue 30-03-21	Wed 17-03-21	Tue 30-03-21	0 days
T3	20 days	Wed 17-03-21	Tue 13-04-21	1	Wed 17-03-21	Tue 13-04-21	Wed 31-03-21	Tue 27-04-21	10 days
T4	50 days	Wed 17-03-21	Tue 25-05-21	1	Wed 17-03-21	Tue 25-05-21	Wed 14-04-21	Tue 22-06-21	20 days
T5	60 days	Wed 31-03-21	Tue 22-06-21	2	Wed 31-03-21	Tue 22-06-21	Wed 31-03-21	Tue 22-06-21	0 days
T6	40 days	Wed 14-04-21	Tue 08-06-21	3	Wed 14-04-21	Tue 08-06-21	Wed 28-04-21	Tue 22-06-21	10 days
T7	45 days	Wed 23-06-21	Tue 24-08-21	4,5,6	Wed 23-06-21	Tue 24-08-21	Wed 23-06-21	Tue 24-08-21	0 days

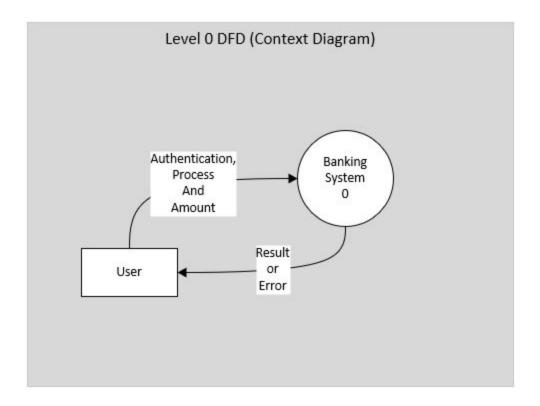
#### **Gantt Chart:**

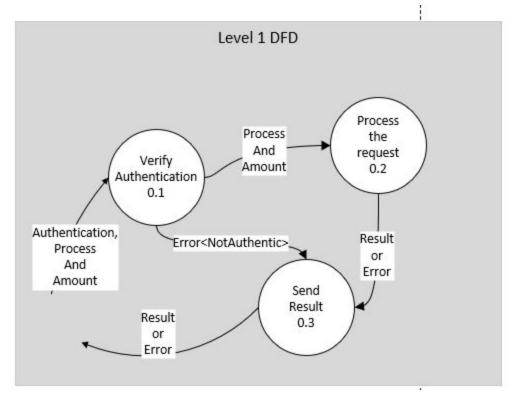


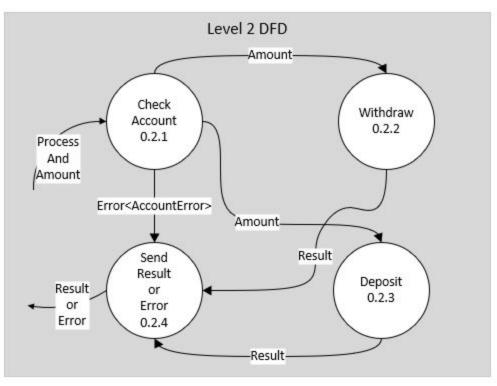
# Activity Network Diagram:



# B. Draw a data flow diagram(DFD) of a banking system.







### **Hand Written Solutions:**

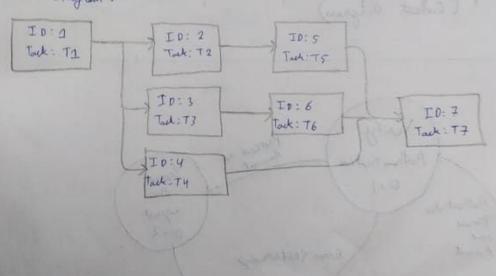
Software Engineering Lab (ESC-591) Exam Name: Sayan Kordu Roll: 067 Semaster : 5th Year : 3rd 10/a) Consider the following activities with their durature: a) T1 (10 days) 6) T2 (10 days) e) | | 3 (20 days) d) 74 (50 days) e) T5 f) T6 (40 days) #(9) +7 (45 days) The following precedence relations hold among the toda: a < {b, e,d}; {b(e); c(f; {de,f}) < g. Find out the following time paremeter for each job: ES, LS, EF, LF, ST & MT for the project. Drew the Activity Network Diagram.

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Slack	o days	A. O	2	20 day	of oppo	\$ 0	40	
We start Liste Finish	16-03-21	30-03-21	27-04-21	12-06-21	22-06-21	72-06-21	24-08-21	200
We start	03-03-21	12-03-21	31-03-21	14-04-21	31-63-21	T. P-04-21	27-04-21	A Marie D
Esta Fins	[(-63-21	30-03-21	(3-04-2)	15-05-21	12-70-21	12-90-80	12-80-42	216
Full State	03-01-21	12-63-51	(4-01-2)	(c-{o-t)	31-03-21	14-40-H	23-66-21	216
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Finish	[7-60-7]	30-03-21	12-69-61	12-50-51	22-06-21	12-30-80	14-08-21	100 to 600 7 20
Start	03-03-21	12-03-21	12-03-21	15-10-51	31-03-21	14-04-11	23-06-21	Autor plants
Duration	10 day	the of	20 days	So John	Ap 09	they oh	stop sh	
Took Name	72	120	13	4 1	15	7.17	1 1	
7	-	4	5	5	4		, ,,	

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	2000	Er, Lr,	217	MT:-

Task	Duration	MT (days)	I Carl	1	1		
T1	10 days	125	Es (dage)	LS (dup)	EF (day)	2F (4y)	57 (14)
T2	10 day		0	0	10	1010	0
T3	20 day		10	10	20	20	0
TY	50 day		10	20	30	40	10
TS	60 days		10	30	60	20 80	20
T6			20	20	80	80	0
T7	40 days		30	40	70	80	10
	45 days		80	80	125	125	0

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