Seat No:	Enrollment No:

## PARUL UNIVERSITY

## FACULTY OF ENGINEERING & TECHNOLOGY

**Diploma Engineering, Mid semester Examination** 

Semester: 6<sup>th</sup> Date: 19 -1 - 2023

Subject Code: 03605353 Time: 7:50 to 9:20 (1hr: 30min)

Subject Name: Construction Management Total Marks: 40

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. English version is considered to be Authentic.

			ered to be Authentic.					
<b>Q.1</b>	Answer an	y six out of Ten. (2	2 Marks Each)			(12)	CO/PO	Blooms
							NAME	Taxonomy
								Words
	1. Define Organization						CO1	Knowledge
	2. Enlist different types of organization						CO3	CREATE
	3. Write full form of CPM and PERT.							Apply
	4. Write full form of EST, EFT, LST, LFT						CO2	Knowledge
	5. Define Float.						CO1	Apply
	6. Define Scheduling.						CO3	Understand
	7. Define Dummy activity.						CO3	Knowledge
	8. Enlist causes of project failure for any construction activity.						CO2	Knowledge
	9. Draw flow chart for Line Organization for Construction Project						CO4	Understand
	10. Write advantages of functional organization.						CO3	Apply
<b>Q.2</b>	A) Write Ro	ole of various perso	nnel in construction organiz	zation.		(03)	CO3	CREATE
			OR					
	A) Write ad	lvantages and disad	vantages of line and staff or	ganization.		(03)	CO3	CREATE
	B) Explain	characteristics of or	ganization.			(03)	CO3	CREATE
			OR					
	B) Write di	fference between E	vent and Activity			(03)	CO3	CREATE
	C) Write ne	twork rules.				(04)	CO3	CREATE
			OR					
			and explain any one in deta			(04)	CO2	Knowledge
			l explain advantages and dis	sadvantages of Gantt b	ar chart.	(04)	CO2	Apply
Q.3	A) Define f	loat and explain typ	es of floats in detail.			(03)		
			OR					
	A) Define the following terms:						CO1	Knowledge
	1. Network 2. Earliest event time 3. Event							
	B) Enlist types of schedules and explain any one schedule in detail.						CO1	Knowledge
	OR							
			associate with construction v			(03)	CO1	Knowledge
	C) From the		n table prepare Network di	Ü	E and TL.	(04)	CO3	EVALUATE
		ACTIVITY	NODES	DURATION				
		Α	1-2	6				
		В	1-3	4				
		С	2-4	5				
		D	2-3	3				
		E	4-6	6				
		F	3-5	10				
		DUMMY	5-6	0				
		G	5-7	10				
		H	6-7	12				
		П		IΖ				
			OR				l	

	C) From the data given below in table prepare Network diagram and calculate TE and TL.			(04)	CO3	EVALUATE
	Activity	Activity Arrow	Duration			
	Α	1-2	8			
	В	1-3	6			
	С	1-4	10			
	D	2-5	8			
	E	2-7	15			
	F	3-5	10			
	G	4-5	8			
	Н	4-6	10			
	[	5-6	10			
	J	5-7	10			
	K	6-7	8			
	L	7-8	7			
	D) From the above example Calculate Total Float, Free Float and Independent Float.			(04)	CO3	EVALUATE
I	Locate critical path for network.					