

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : CE(PC)601 Construction Engineering & Management UPID : 006731

Time Allotted: 3 Hours Full Marks: 70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. An	Answer <i>any ten</i> of the following :				[1 x 10 = 10]	
	(1)	Tractor are ei	ther	tractor or wheel tractor.		
	(11)					
		when tendering commences.				
		(III) For any tender NIT stands for (IV) Define an Indirect cost related to tender. (V) Define Aspect. (VI) The salient feature of functional organization is (VII) Site order book is used for recording of (VIII) Critical Path Network helps an engineer :				
	(IV)					
	(V)					
	(VI)					
	(VII)					
	(VIII)					
	(IX)	Define Shallow foundation.				
	(X)	(X) The Overall in-charge of an organization at the site responsible for the execution of the works, is				
	(XI)	(XI) Define a Milestone chart in project analysis.				
	(XII) The first stage of construction is					
				Group-B (Short Answer Type Question)		
					[5 x 3 = 15]	
2.	State the various aspect governed by building bye laws.				[5]	
3.		Explain emergency lightning and escape lightning.				
4.	•	Discuss briefly activity and event of network analysis.				
5.		Explain the objectives of monitoring and controlling of a project.				
6.	Discuss about dumper and conveyor.				[5] [5]	
				Group-C (Long Answer Type Question)		
					15 x 3 = 45]	
7	/a\		[8]			
7.		Explain the general rules for bathroom and water closet.				
•		Describe the basic requirements for fitments for office building.				
8.		three estimate	[4+4+3+4 1			
		vity t _e	tm	tp	J	
	1-2 1-3	2 3	5 12	14 21		
	1-3 2-4	5	14	17		
	3-4	2	5	8		
	4-5	1	4	7		
	3-5	6	15	30		
	a) Dr	a) Draw the network diagram				
b) Find the expected duration and variance of each activity.						
) Calculate the early and latest occurrence time of each activity.				
	-	Calculate the expected duration.				
9.		a) Explain modular construction building types.				
	(b) S	(b) Short Note on-Advantages and Disadvantages of Precast Concrete				
10.		A dozer with a b	•		[8]	
	ł	norizontal laye	ers for a dista	nce of 50 m. The dozer's forward speed is 2 km/hr and return speed is 5		

km/hr. In each cycle it consumes a fixed time of 0.4 mins. For shi fting gears, adjus ting blade etc. Compute the output of the dozer.

(b) State the difference between Power Shovel and backhoe.

[7] [5+5+5]

- 11. Describe short note on any three of the following:a) Roller
 - b) Hauling equipment
 - c) Right and responsibility of owner, contractor and engineer.
 - d) Means f access
 - e) Fire protection provisions in tall building.

*** END OF PAPER ***