

## MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

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

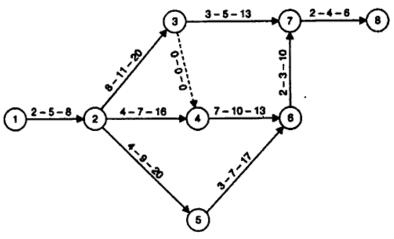
Time Allotted : 3 Hours Full Marks :70

## 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)

. Answer any ten of the following : $[1 \times 10 = 10]$				
	(1)	What is the full form of PERT?		
	(11)	What is deep foundation?		
	(111)	What is rolling resistance?		
	(IV)	What is a Tender?		
	(V)	What is item rate contract?		
	(VI)	What are the documents for the tender form to be submitted?		
	(VII)	What are the minimum requirements of a residential building?		
	(VIII)	What is the rear open space of a corner plot whose area is less than 300 sq.m ?		
	(IX)	What is a fire barrier?		
	(X)	What is the role of a dummy activity in a network?		
	(XI)	What will happen if there is no provision for circulation in a building plan?		
	(XII) Is a ventilation shaft required for fully air-conditioned residential buildings? provide necessary justifications.			
Group-B (Short Answer Type Question)				
		Answer any three of the following:	[5 x 3 = 15]	
2.	Wri	ite a short note on different compaction equipment for concrete?	[5]	
3.	Brie	Briefly state the duties and liabilities of an Engineer. [5]		
4.	Wh	What is FAR? How to calculate FAR? [5]		
5.	Brie	riefly state the fire safety requirements in a building.		
6.		me the components Manually Operated Electronic Fire Alarm (MOEFA) System, and state the working nciple of it.	[5]	
Group-C (Long Answer Type Question)				
		* * -	[ 15 x 3 = 45 ]	
7.	(a)	Briefly discuss the procedure of settlement of dispute in a Civil Engineering contract by Arbitration.	[8]	
	(b)	Discuss the duties and responsibilities of an Assistant Engineer/ Sub-divisional Officer in Public Works Department (PWD).	[4]	
	(c)	Why is it necessary to include the tender notice in the contract document?	[3]	
8.	(a)	What are the different types of precast systems?	[10]	
	(b)	Describe the method of laying bricks in walls.	[5]	
9.	(a)	Classify different types of buildings.	[5]	
	(b)	What is meant by grouping? How grouping is important for a good building plan?	[7]	
	(c)	Why use of natural lighting must be emphasized in planning a building as far as possible?	[3]	
10.	(a)	What do you mean by building bylaws?	[3]	
	(b)	What are the objectives of framing building bylaws?	[3]	
	(c)	Write a short note on components of building automation systems.	[9]	
11.	(a)	The following figure shows the network for a construction project, with the three-time estimates of each activity marked. Determine:  Critical path and its standard deviation	[5]	



- (b) Probability of completion of project in 40 days [Z (+) = +1.7, Probability ( $P_r$ ) = 95.54% Z (+) = +1.8, Probability ( $P_r$ ) = 96.41%]
- (c) Time duration that will provide a 95% probability of its completion in time
  [Probability (P<sub>r</sub>) = 94.52%, Z (+) = +1.6,
  Probability (Pr) = 95.54%, Z (+) = +1.7,]

[5]

\*\*\* END OF PAPER \*\*\*

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