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BACHELOR OF CONSTRUCTION ENGINEERING EXAMINATION, 2024

(4th Year, 1st Semester)

CONSTRUCTION MANAGEMENT - II

Time: Three hours Full Marks: 100

(50 marks for each part)

(Use a separate Answer script for each part)

Part – I (50 Marks)

1.	Activity	Predecessor	Duration (Days)	
	A		2	
	В	A	4	
	С	В	2	
	D	С	5	
	Е	С	8	
	F	D, E	6	
	G	F	7	

With this above mentioned activity chart, prepare following things.

- a) Precedence Network Diagram
- b) Critical Analysis Matrix
- c) Prepare a critical path and find out the total time required to finish the work, showing forward and backward path.

[Turn over

2.	"In PERT method we arrive at an estimate of time using a weighted average to reduce risk." — Explain the above mentioned statement with example.						
3.	What are the different benefits of Work Brake Down Structure method? 5						
4.	Mention three important components of construction infrastructure and write short notes on them. 15						
		Part – II (50 Marks)					
		Attempt any five questions.					
1.	Explain the following terms with example in reference a valid contract as per Indian Contract Act, 1872:						
	a)	Lawful objective					
	b)	Lawful consideration					
	c)	Free consent					
	d)	Competent to contract $4 \ 2\frac{1}{2} \ 10$					
2.	a)	What is the purpose of having technical and financial eligibility criteria in schedule rate contract? How are these ensured before finalizing the tender? 3+3=6					
	b)	Explain the term 'Force Majeure'. 4					
3.	a)	What are the disadvantages of a schedule rate contract?					

	b)	How the obligation of owner different in schedule rate contract and EPC contract? 4
	c)	Explain the term 'Early Completion Bonus' with respect to EPC contract. 2
4.	a)	What is the purpose of R&R assistance in land acquisition as RFCTLARR Act, 2013?
	b)	Mention 3 (three) important shortcomings of RFCTLARR Act, 2013.
	c)	What are the features of PPP? Explain with suitable example. 3
5.	a)	What do you mean by limited and unlimited liability in case of business enterprises? Explain with an example. 5
	b)	Where are the provisions of Contract Labour (Regulation & Abolition) Act applicable? 5
6.	a)	Classify the laws on social security in India. 4
	b)	Enumerate the difference between Provident Fund and Gratuity in reference to social security provisions of workers in India.
	c)	Who all are responsible for payment of wages with respect to Payment of Wages Act, 1936? 2