

C14-C-505

## 4616

## **BOARD DIPLOMA EXAMINATION, (C-14)**

MARCH / APRIL - 2019

## DCE - V SEMESTER EXAMINATION PROJECT MANAGEMENT FOR CONSTRUCTION

Time: 3 Hours] [Total Marks: 80

PART - A

 $3 \times 10 = 30$ 

Instructions:

- (1) Answer ALL questions.
- (2) Each question carries THREE marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

1 Define management in civil engineering.

 $3 \times 1$ 

2 Distinguish between:

 $1\frac{1}{2}+1\frac{1}{2}$ 

- (a) Preliminary estimate
- (b) Detailed estimate
- 3 List any three duties of Chief Engineer.

3×1

4 Define:

 $1\frac{1}{2} + 1\frac{1}{2}$ 

- (a) EST (Earliest Start Time)
- (b) Total float

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5	Defi	ne PERT and	CPM.	3×1
6	Disti	nguish betwee	en:	3×1
	(a)	Dispute		
	(b)	Arbitration		
7	Defi	ne:		$1\frac{1}{2} + 1\frac{1}{2}$
	(a)	Contract		
	(b)	Tender		
8	Disti	nguish		3×1
	(a)	Indent		
	(b)	Invoice		
9	Disti	nguish betwee	en	3×1
	(a)	Entrepreneur		
	(b)	Entrepreneurs	hip	
10	State	Human relat	ion in Construction industry.	3×1
			PART - B	10×5=50
Instr	uctio	ns: (1)	Answer any <b>FIVE</b> questions.	
			Each question carries TEN marks.	•,
		, ,	Answer should be comprehensive and the for valuation is the content but not the the answer.	
11	(a)		ganizational structure of public sector	5
	(b)	Mention any		5
	(b)	ivicinion any	five duties of Executive Engineer".	3
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12	(a) State the limitations of CPM.			
	(b) Distinguish between CPM and PERT. 5			
13	Draw the CPM network diagram for the following given 3+3+3+1			
	data :			
	Activity 1-2 2-3 2-4 3-5 4-5 4-6 5-7 6-7			
	Duration in days 5 6 2 10 8 12 11 8			
	(a) Calculate the project completion time			
	(b) Calculate EFT, EST, LST, LFT, Float			
	(c) Trace the critical path and tabulate.			
14	(a) List the steps involved in fixing up agency through tender 5			
	system.			
	(b) Explain item rate (K-2) contract systems used for 5			
	construction works.			
15	Draft a tender notice for the construction of Over Head Tank 10			
	(OHT) of 20,000 lit capacity at an estimated cost of Rs. 2			
	crore under "Mission Bhagiratha" scheme at Vaadapally.			
16	List the merits and limitations of contact systems 5+5			
	(a) Percentage contract system			
	(b) Lump sum contact "system.			
17	•			
17	(a) Explain the need for mechanization 5			
	(b) Explain the need for optimum utilization of plant and 5			
	equipment.			
18	Evaluate the Risks and Rewards for an Entrepreneur. 5+5			

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