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Question Paper Code: 56102

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

Sixth Semester

		Civil Eng	gineering	
	15UCE602	2-CONSTRUCTION M	ANAGEMENT AND FINA	NCE
		(Regulation	on 2015)	
Dur	ration: Three hours	\ \	,	num: 100 Marks
		PART A - (10 x	1 = 10 Marks)	
1.	Bar charts are suitable	e for		CO1- R
	(a) Minor works	(c) Large projects	(d) All the Above	
2.	The first method investigation	CO1- R		
	(a) Bar chart method	(b) Milestone chart	(c) CPM	(d)PERT
3.	Which of the following	g does not represent a	n activity?	CO2- R
	(a) Site located	(b) Foundation is being dug	(c) The office area is being cleaned	(d) The invitations are being sent
4.	For the network show activity	•	the expected time for the	CO2- R
	1 3-4-5 2	5-7-9 3 6-8	- 10 4	
	(a) 1-2 is 4	(b) 2-3 is 7	(c) 3-4 is 8	(d) All the above
5.	The direct cost of a pr	roject with respect to n	ormal time is	CO3- R
	(a) minimum	(b) maximum	(c) zero	(d) infinite

6.	Site order book is used for recording		CO3- R
	(a) instructions by the executive engineers	(b) construction measurements	
	(c) issue of store equipments	(d) names of the casual labour	
7.	is used to describe a unit containing at least one non conformity.	of product or service	CO4- R
	(a) non-conforming unit	(b) defective unit	
	(c) conformity unit	(d) non-defective unit	
8.	is a team formed in the organ of building quality into the culture of the organ	· ·	CO4- R
	(a)Project council (b) Quality council	(c) Quantity council (d)Cost co	uncil
9.	A financial statement that shows the inflowduring a particular period of time is known as		CO5- R
	(a) income statement	(b) statement of retained earnings	
	(c) balance sheet	(d) statement of cash flows	
10.	The term 'Fund flow' or 'Flow of funds' of	may thus mean transport	CO5- R
	(a) One asset to another	(b) One liability to another	
	(c) Assets to liabilities or vice versa	(d) All the above	
	PART – B (5 x	2= 10Marks)	
11.	What is the significance of coding systems?		CO1- U
12.	Define time /cost trade-offs.		CO2- R
13.	Differentiate duties and responsibilities.		CO3- U
14.	What are the purpose of statistical quality con	ntrol charts?	CO4- U
15.	Define Capital budgeting.		CO5- R

$$PART - C$$
 (5 x 16= 80Marks)

16. (a) What is construction Planning? Explain the basic concepts in the CO1- U development of construction plans.

Or

(b) For the construction of a guest house, certain activities are to be CO1- App (16) performed which are as given below:

Activity	1	2	3	4	5	6	7
No. Duration (in weeks)	2	3	5	4	2	3	5

Activity 2 and 3 can be performed simultaneously and can start only when activity 1 is completed. Activity 4 can start only after activity 2 ends. Activity 5 cannot begin until activities 2 and 3 are completed. Activity 6 can start only after activities 4 and 5 are completed. Activity 7 is the last activity and this can commence only after the completion of activity 5.

- (i) prepare a bar chart for the project
- (ii) What is the total time taken for the completion of the project?
- 17. (a) With the following data of activities of a project, cast a suitable CO2- App (16) network for programming by CPM

Activity	A	В	С	D	Е	F	G
Predecessors	-	A	В	В	D	C,E	F
Time(Days)	5	6	14	8	5	9	6

F and G are terminal activities.

Determine

- (i) Project Completion time
- (ii) The critical path.
- (iii)The total float for each activity

Or

(b) In a project consisting of two activities each activity has duration CO2- App of 5days. Activities 1 and 2 have a start to start precedence relationship with 2days lead. Calculate the project duration. If activities 1 and 2 have finish to finish constraint with a 2 days lag what is the project duration?

18.	(a)	Explain the following												
		(i) Cost control system											CO3- U	(8)
		(ii) Cost Control code											CO3- U	(8)
		Or												
	(b)	(i) What a		CO3-U	(5)									
		(ii) What are the types of accounting?											CO3-U	(5)
		(iii) Discu	ass the	e mair	ntenar	ice of	cash	book.					CO3-U	(6)
19.	(a)	 Explain the use of documentation and quality control circles in construction quality management. Or										les in	CO4- U	(16)
	(b)	The values of sample mean y and the range R for 10 samples										mples	CO4- Ana	(16)
		consisting	g of 5	items	in ea	ch sar	nple a	ire giv	en be	low:				
		Sample	1	2	3	4	5	6	7	8	9	10		
		No.												
		\bar{y}	43	49	37	44	45	37	51	46	43	47		
		R	5	6	5	7	7	4	8	6	4	6		
		Draw the quality co			rang	e cha	rts an	nd cor	nmen	t on t	the st	ate of		
20.	(a)	With the sheet.	help	of a	n exa	mple,	expl	ain ir	ı deta	il abo	out ba	alance	CO5- U	(16)
						(Or							
	(b) Briefly explain the capital budgeting methods.												CO5- U	(16)