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Question Paper Code: 56102

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

Sixth Semester

Civil Engineering

15UCE602-CONSTRUCTION MANAGEMENT AND FINANCE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

- The beginning and end of activities are known as..... CO1- R
(a) Worktask (b) Dummy variable (c) Signposts (d) AON network
- Which format involves hierachial coding system with multiple levels plus keyword text descriptions of each item? CO1- R
(a) Axial (b) Biaxial (c) MASTERFORMAT (d) DATA STORAGE
- Which of the following does not represent an activity? CO2- R
(a) Site located (b) Foundation is being dug (c) The office area is being cleaned (d) The invitations are being sent
- For the network shown in the given figure, the expected time for the activity_____ CO2- R

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graph LR; 1((1)) --- |3-4-5| 2((2)); 2 --- |5-7-9| 3((3)); 3 --- |6-8-10| 4((4))
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(a) 1-2 is 4 (b) 2-3 is 7 (c) 3-4 is 8 (d) All the above
- is the cost that an entity has incurred, and which it can no longer recover by any means CO3- R
(a) Sunk cost (b) Crash cost (c) Normal cost (d) Normal times

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 of product or service CO4- R
 containing at least one non conformity.
 (a) non-conforming unit (b) defective unit
 (c) conformity unit (d) non-defective unit
8. _____is a short duration training course provided in any CO4- R
 company to help you get "industry" knowledge.
 (a) In plant (b) On job (c) In house (d) None of these
9. A financial statement that shows the inflows and outflows of cash CO5- R
 during a particular period of time is known as_____
 (a) income statement (b) statement of retained earnings
 (c) balance sheet (d) statement of cash flows
10. _____is the process in which a business determines and CO5- R
 evaluates potential expenses or investments that are large in nature.
 (a) Capital budgeting (b) Project budget
 (c) Both of them (d) None of these

PART – B (5 x 2= 10Marks)

11. List the various types of construction plans CO1- U
12. Define Critical Path CO2- R
13. Differentiate duties and responsibilities. CO3- U
14. Define Short term financing CO4- U
15. Define Capital budgeting. CO5- R

PART – C (5 x 16= 80Marks)

16. (a) Explain in briefly about the Phases and stages of construction CO1- U (16)
 planning.

Or

- (b) Briefly explain about the Estimating Activity Durations in a CO1- App (16)
 construction project and their limitations.

17. (a) With the following data of activities of a project, cast a suitable network for programming by CPM CO2- App (16)

Activity	A	B	C	D	E	F	G
Predecessors	-	A	B	B	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) Explain in relation to network analysis the terms critical activity , CO2- App (16)
non critical activity, independent float and free float.

18. (a) Explain in detail about the Work register and M-Book. CO3- U (16)

Or

- (b) (i) What are the advantages of accounting? CO3-U (5)
(ii) What are the types of accounting? CO3-U (5)
(iii) Discuss the maintenance of cash book. CO3-U (6)

19. (a) Explain the use of documentation and quality control circles in CO4- U (16)
construction quality management.

Or

- (b) The values of sample mean \bar{y} and the range R for 10 samples CO4- Ana (16)
consisting of 5 items in each sample are given below:

Sample No.	1	2	3	4	5	6	7	8	9	10
\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 mean and range charts and comment on the state of quality control.

20. (a) Explain in detail about the various sources of financing CO5- U (16)
Or
- (b) Briefly explain the capital budgeting methods. CO5- U (16)