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**Question Paper Code: 31171**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Seventh Semester

Civil Engineering

01UCE701 - CONSTRUCTION MANAGEMENT AND FINANCE

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define construction planning?
2. What is significant of coding system?
3. What is a dummy activity? Why do we need it?
4. Define total float and free float.
5. Give importance of cash flow.
6. Define a project budget.
7. What are the charts used in statistical quality control?
8. Differentiate between single and double sampling plan.
9. What do you mean by internal source of finance and give the examples?
10. State the two sides of balance sheet.

PART - B (5 x 16 = 80 Marks)

11. (a) What are the various stages in the development of a construction plan? Explain them in detail. (16)

Or

(b) Explain the procedure for formulating an activity network. (16)

12. (a) The following table shows the job of a project with their duration in days (i) Draw the network (ii) Determine the critical path and (iii) Calculate Total float, free float and Interference Float.

Activity node	1-2	1-3	1-4	2-5	3-5	3-6	3-7	4-6	5-7	6-8	7-8
Duration (days)	2	7	8	3	6	10	4	6	2	5	6

(16)

Or

(b) The following table shows for each activity needed to complete the project the normal time, the shortest time in which the activity can be completed of a building contract and the cost per day for reducing the time of each activity. The contract includes a penalty clause of Rs 100 per day over 17 days. The overhead cost per day is Rs160.

Activity	Normal time in days	Shortest time in days	Cost of reduction per day (Rs.)
1-2	6	4	80
1-3	8	4	90
1-4	5	3	30
2-4	3	3	-
2-5	5	3	40
3-6	12	8	200
4-6	8	5	50
5-6	6	6	-

The cost of completing the eight activities in normal time is Rs 6, 500.

(i) Calculate the normal duration of the project, its cost and the critical path.

(ii) Calculate the lowest cost and associated time. (16)

13. (a) List out the various categories of cost involved in a project. Explain them in detail. (16)

Or

(b) (i) Differentiate between cost accounting and financial accounting. (8)

(ii) State the advantages of cost control. (8)

14. (a) Discuss different method of sampling. (16)

Or

(b) What are the causes of accidents? Explain about the human factor which causes accidents. (16)

15. (a) State the financial implications of various sources of finance. (16)

Or

(b) (i) What are the advantages and disadvantages of ratio analysis? (8)

(ii) What are the different types of financial statements? Also outline the limitations of financial statements. (8)

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