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Question Paper Code : 71514

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Sixth Semester

Civil Engineering

CE 6005 –CONSTRUCTION PLANNING AND SCHEDULING

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the uses of coding system.
2. Define work breakdown structure.
3. Define critical path.
4. Define the terms: (a) Dummy activity (b) Float .
5. Discuss about the account payable journal and accounts receivable journal.
6. List out the sources of cash inflow and cash outflow.
7. Examine how the quality control is important in a construction project and Explain producer's risk and consumer's risk
8. How will you interpret the quality control when chance cause and assignable cause exist in a process?
9. Name the PIMS components.
10. Show the importance of network code specifications.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Write down the importance of construction planning. (8)
(ii) How will you calculate activity duration? Explain in detail. (8)

Or

- (b) (i) Define construction planning. Explain in detail about the basic concept involved in the development of construction plan (8)
(ii) Prepare a generalized report on stages of planning by different agencies. (8)

12. (a) Draw the network and design the critical path and calculate the completion time of the project whose activities are as follows. (16)

Activity	Duration in days	Preceding activity
A-B	7	-
B-C	10	A-B
B-D	15	A-B
C-D	7	B-C
C-E	12	B-C
D-E	3	B-D, C-D
E-F	5	C-E, D-E

Or

- (b) Calculate the critical path and all the floats by construction activity on branch network. (16)

Activity :	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Predecessor :	-	A	A	-	B	C,D	C,D	D	H	F	E,J	F	G,J	G,I	L,N
Duration :	6	7	1	14	5	8	9	3	5	3	4	12	6	2	7

13. (a) Describe the major causes of unfavorable direct cost variances? Explain two major objectives of budgeted cost analysis. (16)

Or

- (b) (i) How will you calculate the net profit using Percentage of completion method and completed contract method? (8)
- (ii) Write short notes on three different time estimates. (8)
14. (a) Explain how will you assess the information in an organized manner using computers. (16)

Or

- (b) Explain the problems associated with the safety of a construction site. (16)
15. (a) Illustrate a typical flow chart of an integrated accounting system for the Generation of financial reports and explain them briefly (16)

Or

- (b) Explain how the information can be organized using computers. (16)