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**Question Paper Code : 57140**

**B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**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. Define Activity.
2. Explain the process involved in planning.
3. Define the term work break down structure.
4. List out the factors affecting scheduling.
5. Differentiate between cash inflow and cash outflow.
6. List the classification of cost control.
7. Explain how the quality control is important in a construction project.
8. Write about the total quality control.
9. How will you analyze the network data model ?
10. Describe the database management program.

**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) Describe the precedence activities and justify the relationship between independent float and free float. (8)
- (ii) In a project consisting of two activities each activity has duration of 5 days activities 1 and 2 have a start to start precedence relationship with 2 days lead, calculate the project duration. If activities 1 and 2 have finish to finish constraint with a 2 days lag. Describe what is the project duration? (8)

12. (a) The duration of activities of a project are as follows. Draw the PERT network diagram. Identify various paths. Identify the critical path. Tabulate the computations. What is the project time?

<b>Activity :</b>	1-2	1-3	2-4	2-5	4-7	5-7	7-8	3-6	6-8
<b>Duration in days :</b>	5	10	1	6	12	3	4	7	6

**OR**

- (b) Explain in relation to network analysis, the terms critical activity, non-critical activity, independent float and free float. (16)

13. (a) (i) Differentiate between variation of direct and indirect cost. (8)
- (ii) Explain the different components of accounting system. (8)

**OR**

- (b) (i) How will you calculate the net profit using percentage of completion method and completed contract method? (8)
- (ii) Write short note on three different time estimates. (8)

14. (a) Summarize the following :
- (i) Statistical quality control by sampling (8)
- (ii) Safety in construction (8)

**OR**

- (b) Classify the different methods of statistical quality control. (16)

15. (a) Explain how will you assess the information in an organized manner using computers.

**OR**

- (b) How will you interpret the database approach to contractor's account and explain it briefly. Mention its advantages and disadvantages also. (16)