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Question Paper Code : 21261

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Sixth Semester

Civil Engineering

CE 2353/CE 63/10111 CE 604 — CONSTRUCTION PLANNING AND SCHEDULING

(Regulations 2008/2010)

(Common to PTCE 2353 – Construction Planning and Scheduling for
B.E. (Part-Time) Fourth Semester Civil Engineering Regulations 2009)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   What do you understand about precedence relationship among activities?

2.   How does the learning process affect the rate of productivity?

3.   What is scheduling?

4.   Distinguish between lead time and lag time.

5.   Differentiate direct from indirect project costs.

6.   What are the main classifications of cost control?

7.   What are the causes of accidents in construction industry?

8.   Define 'quality circle'.

9.   What is meant by relational database?

10. List the types of information used for decision-making.

PART B — (5 × 16 = 80 marks)

11. (a) What is Construction planning? Explain in detail about the basic concepts involved in the development of construction plan. (16)

Or

(b) Discuss the purposes of coding of activities. Codify the activities involved for a primary school building construction. (16)

12. (a) Describe the similarities, common features and differences between critical path method and precedence network analysis. (16)

Or

(b) The following table gives data about duration and cost of various activities of a project. The project overhead costs are Rs. 2,500 per week. Find the optimum duration and cost associated with it. (16)

| Activity | Duration | | Cost | |
	Normal	Crash	Normal	Crash
1-2	4	2	4,000	12,000
2-3	5	2	3,000	7,500
2-4	7	5	3,600	6,000
3-4	4	2	5,000	10,000

13. (a) Illustrate the process of profit estimation by 'percentage completion method' and 'completed contract method' with suitable examples. (16)

Or

(b) (i) How will you forecast the activity cost control? (8)

(ii) How the schedule and budget updates are used in construction work? (8)

14. (a) 'Comprehensive Legislation for Safety and Welfare of Workers is the prime need for Indian Construction Industry'- Comment on the statement by quoting examples. (16)

Or

(b) (i) Describe about the material specifications to ensure quality control in construction. (8)

(ii) Explain the methods of statistical quality control with examples. (8)

15. (a) Explain the information transfer and flow in organising project information. (16)

Or

(b) (i) Briefly explain the hierarchical models for organising database. (8)

(ii) Enumerate the requirements of computerised Management Information System. (8)

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