

C 3118

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Sixth Semester

Civil Engineering

CE 1353 — CONSTRUCTION PLANNING AND SCHEDULING

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name the classification of project based on cost.
2. Define critical path.
3. Differentiate activity and node.
4. What is meant by earliest event time and latest event time?
5. Name the types of accounting
6. Define fixed cost and variable cost.
7. What are the charts used in statistical quality control?
8. Define accident.
9. Define Injury Frequency Rate.
10. Name the PIMS components.

PART B — (5 × 16 = 80 marks)

11. (a) Briefly discuss the three time estimate in PERT network analysis.

Or

- (b) Discuss the difference between CPM and PERT.

12. (a) Draw the network and find out the critical path, completion time of the project whose activities are given below :

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) The details of a network are given below where the duration are in days :

Activity	t_0	t_m	t_p
1-2	2	5	8
1-3	1	4	7
2-3	0	0	0
2-4	2	4	6
2-6	5	7	12
3-4	3	5	10
3-5	3	6	9
4-5	4	6	10
4-6	2	5	8
5-6	2	4	6

Find the critical path and project completion time.

13. (a) What are the objectives of cost control? Explain.

Or

- (b) Briefly discuss relationship between estimating and cost control.

14. (a) Discuss briefly the Total Quality Management?

Or

(b) What are the causes of accidents? Explain about human factors which cause accidents.

15. (a) Explain the applicability of different types of control charts in statistical quality control.

Or

(b) What are the functions of Project Management Information System? Explain.
