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C 3145

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

Sixth Semester

Civil Engineering

CE 1353 — CONSTRUCTION PLANNING AND SCHEDULING

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

(Statistical tables are permitted)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define "Planning" and "Scheduling".
2. Define precedence relationship among activities.
3. What are the shortcomings of bar charts?
4. Can we crash all activity durations to a minimum completion time of less than one day? Substantiate your answer.
5. Differentiate cost committed and Cost Exposure.
6. What do you understand about 'accounts payable journal' and "Accounts receivable journals"?
7. What is a quality circle? And what are its duties.
8. How will you interpret the quality control when chance cause and assignable cause exists in a process?
9. What are the objectives of PMIS?
10. State the advantages of centralised DBM over stand-alone systems.

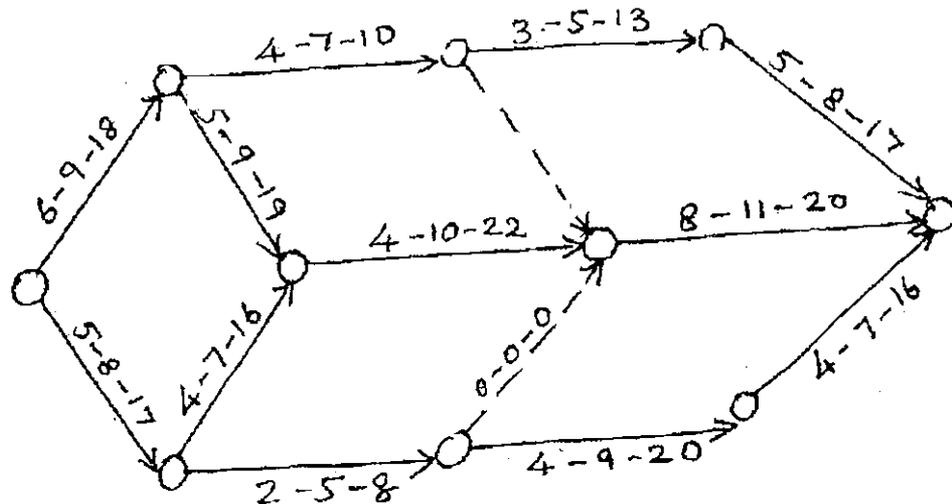
PART B — (5 × 16 = 80 marks)

11. (a) Enumerate the different types of project plans.

Or

- (b) Illustrate typical hierarchical activity divisions for a road project.

12. (a) The network for a construction project is shown in the following figure. The three time estimates for each activity are given along each activity arrow :



Compute :

- The project completion time and its standard deviation.
- What is the probability of completing the project in 30 days and 40 days?
- The days required to complete the project with 95% confidence level.

Or

- (b) Compare "Precedence network analysis" and critical path method.

13. (a) Explain the importance of forecasting the activity cost control with an example.

Or

- (b) A company began six jobs in a year, completing three jobs and having three jobs still under way at the end of the year. The details of the 6 jobs are shown in the following table :

Net profit on completed jobs (Amounts in thousands)

Job 1				Rs. 1,436
Job 2				Rs. 356
Job 2				Rs. - 738
Status of Jobs under way	Job 4	Job 5	Job 6	
Original contract price	Rs. 4,200	Rs. 3,800	Rs. 5,630	
Contract changes	Rs. 400	Rs. 600	Rs. - 300	
Total cost of date	Rs. 3,600	Rs. 1,710	Rs. 620	
Payment Received (or) Due to Date	Rs. 3,520	Rs. 1,830	Rs. 340	
Estimated cost to complete	Rs. 500	Rs. 2,300	Rs. 5,000	

What would be the companies net profit under, first "percentage of completion" and second", completed contract" method of accounting conventions?

14. (a) What are the objectives of specifications? And write down the detailed specification for R.C.C.

Or

- (b) Why is an accident prevention programme essential in a construction project? Also Explain the general safety programmes for a construction project.
15. (a) List the various functions of different Managers and the softwares required for their requirements.

Or

- (b) Illustrate the 'data base management system' with schematic diagram.