

Question Paper Code : 71261

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Sixth Semester

Civil Engineering

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

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

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What do you mean by fast track approach in construction?
2. Compare CPM and PERT.
3. Define :
 - (a) Dummy activity
 - (b) Float.
4. How do you crash an activity?
5. Briefly explain types of indirect costs.
6. What do you mean by break even analysis?
7. Briefly write about any one type of budgets involved in a typical construction project.
8. Define safety audit.
9. What is meant by “sampling by attributes”?
10. What do you mean by decision support system?

11. (a) List down the major steps in planning a project. Explain in detail about the three natures of plans encountered in a typical construction project.

Or

- (b) Explain in detail about the factors affecting work scheduling.

12. (a) Explain in detail about critical path scheduling with an example.

Or

- (b) Briefly explain about :

(i) Scheduling with uncertain durations

(ii) Resource oriented scheduling.

(8 + 8)

13. (a) What are the guidelines to be kept in mind while preparing a budget to make it more effective?

Or

- (b) What are the major causes of unfavourable direct cost variances? Explain the two major objectives of budgeted cost analysis.

14. (a) Explain the various stages of risk cost management.

Or

- (b) Explain in detail about quality and safety concerns in construction.

15. (a) Discuss in detail about various quality control by statistical methods.

Or

- (b) What are the main functions Project Management Information Systems? What are the major components of it?
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