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Question Paper Code : 31213

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

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. Define work task.
2. Define planning.
3. What is scheduling?
4. What are lags?
5. Mention the types of accounting system.
6. State about the sampling.
7. List out the basic elements of control.
8. Brief about the people who are involved in safety for construction?
9. What is meant by organisation?
10. Mention the physical elements of management system.

PART B — (5 × 16 = 80 marks)

11. (a) Explain, why the planning is necessary in construction. Describe various steps involved in a planning of a construction project.

Or

- (b) What are the various modern construction methods adopted for on-site and off site constructions?

12. (a) (i) Explain optimistic time estimate, pessimistic time estimate and most likely time estimate.
(ii) Explain the term earliest expected time. Formulate an expression for determining the same.

Or

- (b) (i) A stretch of 60 km forming part of a national highway is to be laid out. Prepare a job layout for carrying out this scheme.
(ii) Mention the limitations of bar chart. How is the milestone chart an improvement over the bar chart.
13. (a) Discuss about cost analysis in construction project. Bring out the relationship between estimating and cost control.

Or

- (b) (i) Explain the need for the construction manager for having knowledge of the departmental procedure and accounting methods.
(ii) Why is the cash book to considered as an important accounting document?
14. (a) (i) Discuss the importance of quality in construction projects.
(ii) Explain the different factors leading to accident in construction project.

Or

- (b) (i) Discuss the necessity or sampling. What do you understand by reliability number?
(ii) Enumerate the different methods of non-destructive test for concrete structures.
15. (a) (i) Enumerate the general principles to be followed in forming an organisation system.
(ii) Discuss the role of computers in construction industry.

Or

- (b) Define the data base and its benefits and also discuss the role of database approach to contractor's account.