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Question Paper Code : X 60260

B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC. 2020

Sixth Semester

Civil Engineering

CE 2353/10111 CE 604/CE 63 – 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. 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. Define quality circle.
8. Explain producer's risk and consumer's risk.
9. What is meant by organisation ?
10. Mention the physical elements of management system.

**PART – B****(5×16=80 Marks)**

11. a) What is construction planning ? Explain in detail about the basic concept involved in the development of construction plan.
(OR)
- b) Explain in detail about the critical path method with a neat sketch.
12. a) i) Explain optimistic time estimate, pessimistic time estimate and most likely time estimate. **(8)**
- ii) Explain the term earliest expected time. Formulate an expression for determining the same. **(8)**
- (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. **(8)**
- ii) Mention the limitations of bar chart. How is the milestone chart an improvement over the bar chart ? **(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) '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) What are different types of project informations and explain them ?
(OR)
- b) Explain Database Management Systems.
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