Reg. No. :

Question Paper Code : 20234

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Sixth Semester

Civil Engineering

CE 6005 — CONSTRUCTION PLANNING AND SCHEDULING

(Regulations 2013)

(Common to PTCE 6005 — Construction Planning and Scheduling for B.E. Part
Time– Fifth Semester – Civil Engineering – Regulations 2014)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Write the basic concepts involved in development of construction plan.

2.   How do you define the work tasks?

3.   Define the term Cost trade-offs.

4.   List out the uses of advanced scheduling techniques.

5.   What do you understand by cost control problem?

6.   Mention the factors influence the schedule information.

7.   Define the term total quality control.

8.   Name the different statistical methods used in quality control.

9.   Write the use of project information in construction.

10. What is meant by conceptual model of database?

PART B — (5 × 13 = 65 marks)

11. (a) Mention how precedence relationships among activities is described
         and explain how do you estimate the activity duration.   (13)

Or

(b) Discuss about how you use choice of technology for developing a
     construction plan.   (13)

12. (a) Explain briefly about the scheduling with resource constrains and precedence. (13)

Or

(b) (i) Describe the various methods of presenting the project schedules. (7)

(ii) Discuss the application of software in scheduling procedures. (6)

13. (a) Explain in detail about the various practices of financial accounting systems. (13)

Or

(b) Write detailed notes on schedule and budget updates. (13)

14. (a) Discuss briefly about the quality and safety precautions required in an construction industry. (13)

Or

(b) Describe the process of statistical quality control with sampling by attributes. (13)

15. (a) List out the various types of project information and explain briefly. (13)

Or

(b) Describe briefly about the centralized database management system. (13)

PART C — (1 × 15 = 15 marks)

16. (a) With flow chart and explain about how do you estimate the resources requirement for different stages of construction activities. (15)

Or

(b) What is meant by critical path? how it is helpful in project scheduling and give its advantages. (15)