

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER M.TECH DEGREE EXAMINATION
Civil Engineering
(Structural Engineering and Construction Management)
04CE6413—Construction Planning, Scheduling and Control

Max. Marks : 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

1. How is estimating for resource requirements for work activities done?
2. What do you mean by critical path? Explain the critical path method.
3. Explain the term resource constrain.
4. What do you mean by a poorly structured problem?
5. Explain cash flow.
6. How can you relate cost and schedule information?
7. Explain material specification in construction.
8. Differentiate statistical quality control with sampling by attributes and by variables.

PART B

Each question carries 6 marks

9. Explain work task and precedence relationships among activities.
OR
10. Comment on Coding Systems in Construction Industry.
11. Explain the calculations for critical path scheduling
OR
12. Substantiate the relevance of construction schedules in construction industry.
13. How is PERT method used in scheduling with uncertain durations?
OR
14. Discuss on resource oriented scheduling with resource constrains and precedences.
15. Describe how scheduling is done in poorly structured problems.
OR
16. Elaborate the procedure required to perform Monte Carlo simulation for the purpose of schedule analysis.
17. Discuss on Civil Engineering need for Cost Control, Monitoring and Accounting.
OR
18. Elucidate the concept of schedule and budget updates.
19. Briefly explain about Quality and Safety Concerns in Construction.
OR
20. Explain statistical quality control with sampling by attributes.