

Register No: Name:



SAINTGITS COLLEGE OF ENGINEERING KOTTAYAM, KERALA

(AN AUTONOMOUS COLLEGE AFFILIATED TO
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER M.TECH. DEGREE EXAMINATION(R), MARCH 2021 (STRUCTURAL ENGINEERING AND CONSTRUCTION MANAGEMENT)

Course Code: 20CESCT131**Course Name:** CONSTRUCTION PLANNING, SCHEDULING AND CONTROL**Max. Marks:** 60**Duration:** 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

1. How technology is changing construction industry?
2. Explain total and free floats with related equations.
3. List any three uses of advanced scheduling techniques
4. What do you mean by a poorly structured problem?
5. How can we have control on project cash flow?
6. Describe the purpose of job cost elements
7. What are the statistical methods for quality control?
8. Differentiate producers risk and consumers risk.

PART B

(Answer one full question from each module, each question carries 6 marks)

MODULE I

9. Explain work task and precedence relationships among activities (6)

OR

10. How is coding system advantageous to the construction industry? (6)

MODULE II

11. What do you mean by Critical Path Method? Explain the calculations done in critical path scheduling (6)

OR

12. Substantiate the relevance of construction schedules in construction industry. (6)

MODULE III

13. How is PERT method used in scheduling with uncertain durations? (6)

OR

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14. Comment on the use of advanced scheduling techniques (6)

MODULE IV

15. What is Time/Cost trade off? Justify its importance. (6)

OR

16. Describe the procedure required to perform Monte Carlo simulation for the purpose of schedule analysis. (6)

MODULE V

17. Substantiate the purpose of relating cost and schedule information. (6)

OR

18. Discuss on Civil Engineering need for Cost Control, Monitoring and Accounting (6)

MODULE VI

19. Justify the importance of total quality control in construction management (6)

OR

20. Discuss the importance of safety in Construction Planning. (6)
