**E** 219B1 Total Pages: **2** 

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# SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER M.TECH DEGREE EXAMINATION (R), DECEMBER 2023 STRUCTURAL ENGINEERING AND CONSTRUCTION MANAGEMENT (2021 Scheme)

Course Code: 21SC105-B

Course Name: Construction Planning, Scheduling and Control

Max. Marks: 60 Duration: 3 Hours

### PART A

## (Answer all questions. Each question carries 3 marks)

- 1. Comment on "Selecting the right technology and construction techniques is paramount to achieving project success".
- 2. Provide examples of three project that can be benefited from the application of advanced scheduling techniques.
- 3. What should be the practical approach to evaluate the problems encountered in the construction industry?
- 4. Enumerate the components of financial accounting system.
- 5. Justify the statement considering the safety concerns in the construction industry "Safety doesn't happen by accident".
- 6. Explain the concept of quality control in construction and its role in preventing defects and ensuring compliance with specifications.
- 7. Explain the hierarchical model for organising databases.
- 8. How do centralized database management systems differ from decentralized or distributed systems in terms of data control and access?

## PART B

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

## **MODULE I**

9. Illustrate the various ways you can present the project schedule. (6)

#### OR

10. Substantiate the relevance of coding system in construction industry. (6)

### **MODULE II**

11. Explain in detail the calculations involved in the Monte Carlo schedule simulation. (6)

OR

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