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Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER M.TECH DEGREE EXAMINATION (Regular), FEBRUARY 2022

(Structural Engineering and Construction Management)

(2021 Scheme)

Course Code: 21SC103

Course Name: Construction Planning and Management

Max. Marks: 60 Duration: 3 Hours

## **PART A**

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

- 1. Describe the significance of resources in preparing project schedule.
- 2. List out the major approaches to management theory.
- 3. Discuss the characteristics of good organization.
- 4. Describe the benefits of Management Information System.
- 5. An investor has an option to purchase a tract of land that will be worth Rs.10000 in six years. If the value of land increases at 8% each year, how much should the investor be willing to pay for this property.
- 6. Explain cash flow diagram.
- 7. Define Incremental cost.
- 8. Explain benefit cost ratio.

### **PART B**

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

### **MODULE I**

(6)

(6)

(6)

9. How you can calculate the earliest expected time and latest allowable occurrence time in PERT? Give an example and explain them.

#### OR

10. Prepare work breakdown structure and develop a network for "Casting a Concrete beam over a verandah opening". The activities should include: Design of concrete mix, structural design, Installing mixer at the site, placing concrete, curing etc. The no. of activities should not exceed 15.

# **MODULE II**

11. Compare & Contrast the management theories put forward by Taylor & Fayol. (6)

### OR

12. Discuss the concept of Weber's Ideal Bureaucracy.

## **MODULE III**

(6)

20. Alpha associates has the following details:

> Fixed cost = Rs.20,00,000

Variable cost per unit = Rs.100

Selling price per unit = Rs.200

Find 1) The break-even sales quantity.

2) The break even sales.

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