

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER M.TECH DEGREE EXAMINATION (Regular), DECEMBER 2023**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. Explain Project Management and the Steps involved in it
2. Discuss of the concept Scientific Management
3. Outline the key principles of an organization
4. Explain the various computer applications and tools involved in construction management.
5. Explain the components of a cash flow stream in a replacement project.
6. What do you mean by Break even analysis and what are its limitations?
7. What are capital budgeting and working capital management?
8. Discuss any two types of interest formulas and their applications.

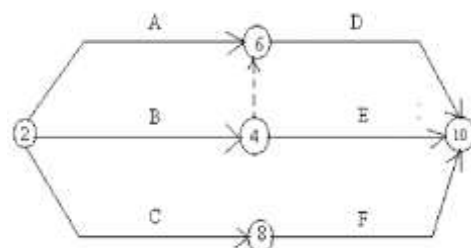
PART B**(Answer one full question from each module, each question carries 6 marks)****MODULE I**

9. What do you mean by updating a project? Why is it done? What are the (6) data required for updating?

OR

10. Allocate the daily workforce for a network schedule for a maximum crew (6) size of 13 workers per day.

activity	Normal duration	Crew size	
		normal	minimum
A	5	5	1
B	3	4	2
C	6	8	8
D	5	6	3
E	5	4	2
F	10	4	4



MODULE II

11. Describe in detail the evolution of management theory, with the contributions of pioneers in the same (6)

OR

12. What is the contribution of SM in construction industry. Explain its advantages and disadvantages. (6)

MODULE III

13. Write detailed notes on, Construction Organization Set up. (6)

OR

14. Briefly explain the Behavioral science theory with the help of Maslow's hierarchy of needs. (6)

MODULE IV

15. Explain Data Base Management System with examples. (6)

OR

16. What are the different types of Management information systems? (6)

MODULE V

17. Cite an example and explain how the decision making is done in selecting between various alternatives. (6)

OR

18. What is present worth, annual equivalent and rate of return methods of evaluating alternatives? (6)

MODULE VI

19. What are the various guide lines for replacement analysis? (6)

OR

20. What do you mean by benefit-cost analysis? Briefly explain the same with an example. (6)
