

CEMGI Construction Management with MIS

513

REG. NO

OCTOBER 2021

Time: Three hours

Maximum Marks: 75

- Note:
1. Answer ALL the questions in PART-A (1 mark each)
 2. Answer any ONE question from each unit in PART-B (3 marks each)
 3. Answer any ONE question from each unit in PART-C (10 marks each)
 4. The question paper contains TWO Pages

PART-A (1x10=10)

1. Define the term construction management.
2. Define building economics.
3. List any two qualities of efficient construction manager.
4. Define labour report.
5. What is Bar chart?
6. What is crashing of an activity?
7. What is meant by accident at construction site?
8. Mention the need for legislation.
9. Mention any two concept of entrepreneurship.
10. Define robotics.

PART-B (3x5=15)

UNIT-I

11. List the types of construction sectors with an example.
12. Define land acquisition.

UNIT-II

13. Define decentralization.
14. Mention any three responsibilities of chief engineer.

UNIT-III

15. What is work break down chart?
16. Draw the time vs cost optimization curve.

UNIT-IV

17. Write about human valves.
18. What is meant by dispute?

UNIT-V

19. List the role of entrepreneurship.
20. List the requirements of MIS.

PART-C (10x5=50)

UNIT-I

21. Discuss briefly the duties and responsibilities of owner, consultant and contractor.
22. Define tender document. What are the informations to be furnished in tender document?

UNIT-II

23. Explain the following (i) Partnership company (ii) Joint stock company
24. Write short notes on (i) Pay rolls and records (ii) work charged establishments.

UNIT-III

25. The following are the three time estimates of activities. Draw the project network. Calculate t_o , t_l and slack for each node. Identify the critical path.

Activity	1-2	1-3	1-4	2-4	2-5	3-5	3-6	4-6	5-6
t_o	2	3	2	5	6	1	3	3	5
t_l	5	12	5	14	15	4	6	6	8
t_p	14	21	8	17	30	7	21	9	17

26. Write short notes on
 - (i) Classification of schedules
 - (ii) Resource leveling and its objectives.

UNIT-IV

27.
 - (i) List the various causes of accident and explain
 - (ii) Modes of settlement of disputes.
28. Write short notes on
 - (i) Role of various parties in safety management
 - (ii) Factories act.

UNIT-V

29. Explain in detail the use of computers in the field of construction industry.
30. A company is considering the purchase of new computer systems which will cost Rs.1,20,000 initially. The cash flow from this project is as follows:

Year	Cash flow (Rs.)	Discount factor
1	60,000	0.823
2	50,000	0.797
3	45,000	0.712
4	60,000	0.636

The discounting rate is 12%. Calculate the net present value for the project. Also state whether the project can be accepted or rejected.
