



Eighth Semester B.Arch. Degree Examination, June/July 2025 Construction and Project Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 Write short notes on the following :
- What is project management of its principles
 - Role of an architect, constructions and contractor
 - What is organization? How it functions
 - What is life cycle of projects? Name its phases.
- (20 Marks)

OR

- 2 a. Discuss the important functions of management in contest the construction projects. (10 Marks)
- b. Explain the necessity of managing the life cycle of the projects : what is the impacts of the same. (10 Marks)

Module-2

- 3 a. Explain the roles and responsibilities of a project manager. (10 Marks)
- b. Discuss PM methodologies, frame works, knowledge area and process groups. (10 Marks)

OR

- 4 Write short notes on :
- Decision tree
 - SWOT analysis
 - Cost – Benefit analysis
 - Value engineering.
- (20 Marks)

Module-3

- 5 a. Draw the networks of a project whose activities and duration is given below :

Activity	Duration
1 – 2	3
1 – 3	4
1 – 4	14
2 – 6	5
3 – 4	3
3 – 5	4
3 – 6	6
4 – 5	1
5 – 6	1

- b. Determine the earliest and latest start and finish times of each activity.
- c. Find the critical path for the networks.
- d. Determine the total float ; free float and independent float for each activity. (20 Marks)

OR

- 6 Find the critical path and calculate the slack time for the following network.

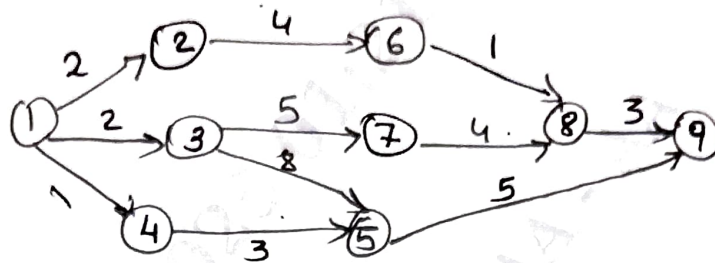


Fig.Q6

(20 Marks)

Module-4

- 7 a. Role of a project manager is highly serious in any project, so is construction manager highlight the major differences between PM and CM. (10 Marks)
 b. What is interm and final certificate? Explain in detail. (10 Marks)

OR

- 8 a. What are the health and safety measures to be followed during construction? (10 Marks)
 b. What is quality management in construction? Explain in detail. (10 Marks)

Module-5

- 9 Write short notes on :
 i) Standard and special equipment
 ii) Parameters considered in selection of equipments
 iii) Economic life of an equipment
 iv) The necessity to mechanise.

(20 Marks)

OR

- 10 Describe and sketch any four equipments used in large scale construction and write about its usefulness and maintenance. (20 Marks)
