

CBCS SCHEME



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18ENG85

Eighth Semester B.Arch. Degree Examination, Dec. 2024 / Jan. 2025 Construction and Project Management

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Missing data, if any, may be suitably assumed.

Module-1

- 1 a. Explain briefly the meaning of project life cycle and its different stages. (10 Marks)
- b. Define Ethics and discuss the various aspects of it in construction industry. (10 Marks)

OR

- 2 a. Discuss the need and importance of management in construction industry. (12 Marks)
- b. As a contractor, mention the various categories of construction project and the basis for the same. (08 Marks)

Module-2

- 3 a. Suggest and sketch an organization structure suitable for a medium scaled construction company. Also discuss the roles of members in the hierarchy. (12 Marks)
- b. Write briefly about the importance of value engineering and feasibility studies. (08 Marks)

OR

- 4 a. Mention and discuss the various decision making tools used by a manager. (10 Marks)
- b. Discuss the various roles played by a construction manager in a construction firm. (10 Marks)

Module-3

- 5 a. Write notes on the differences between CPM and PERT. (06 Marks)
- b. Listed below are a set of activities for a project. Assume the total normal cost of project is Rs. 2000/-. If the indirect cost of the project is Rs. 200/- per day, find the total cost of the project for normal optimum and minimum duration of the project.

Activity	Pre coding activity	Normal time (in days)	Crash time (in days)	Cost slope (in Rs./day)
A	—	5	4	100
B	—	8	7	200
C	A	2	2	—
D	A	6	4	300
E	B, C	4	4	—
F	B, C, D	4	3	100

(14 Marks)

OR

- 6 a. What is a Gantt chart? Discuss its usages and limitations. (08 Marks)
 b. For the set of activities mention below, draw the precedence diagram and find the total project duration, critical path and all the floats for the activities.

Activity	Preceding activity	Duration (in days)
A	–	3
B	A	2
C	D	4
D	E	2
E	A	5
F	B	1
G	B	2
H	E, G	3

(12 Marks)

Module-4

- 7 a. Mention the basis/ reference for project monitoring and discuss the several means /methods for the same. (08 Marks)
 b. Write briefly about the various aspects of quality control in construction sector. (12 Marks)

OR

- 8 a. Discuss the features/aspects of project updating and progress curves by construction manager. (10 Marks)
 b. “Construction health safety is an essential aspect” – Justify the statement from the perspective of management. (10 Marks)

Module-5

- 9 Write explanatory notes on the following :
 a. Standard and special equipment. (08 Marks)
 b. Earthwork equipments, with a neat sketch and description of any one of them. (12 Marks)

OR

- 10 a. With a neat sketch explain any one type of equipment used for “Hoisting” material. (10 Marks)
 b. Explain with notes and sketches, several safety equipments used in construction industry. (10 Marks)
