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## Eighth Semester B.Arch. Degree Examination, June/July 2023 Project and Construction Management

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Use of z (probability) tables for numerical are permitted.*

### Module-1

1 What is Project Management? Its objectives and principles and study areas of project managements with respect to building industry. (20 Marks)

OR

2 Explain the types of construct project and its life cycle stages. Why managing the life cycle stages is necessary? (20 Marks)

### Module-2

3 Write short notes on :

- i) SWOT Analysis
- ii) Project planning
- iii) Project Scheduling
- iv) Project Controlling.

(20 Marks)

OR

4 Explain the role of computer applications in Project Management. (20 Marks)

### Module-3

5 Carry out the PERT analysis for the following data and workout the  $T_E$  and standard deviation of the project and make statements on probabilities of completions if  $T_E$  is increased and decreased. What is the probability of completion of the project in 45 days and 38 days?

Activity	Optimistic $t_o$	Pessimistic $t_p$	Most likely $t_m$
A	3	21	12
B	1	7	4
C	5	17	14
D	2	14	5
E	6	30	15

(Refer 2 probability tables).

(20 Marks)

OR

6 Explain the following techniques used in project scheduling and management:

- a. Work break down structure
- b. Bar chart
- c. Milestone chart
- d. Network theories PERT and CPM.

(20 Marks)

**Module-4**

- 7 a. Explain the find checking method before certifying the works on site based on BoQ and terms of contract. (10 Marks)
- b. Role of project manager is highly serious in any project, so is construction manager highlight the major differences between PM and CM. (10 Marks)

**OR**

- 8 a. What is the difference between quality control, assurance and management? (05 Marks)
- b. Construction works safety and health are essential component in labour management. Enumerate the various standard in force to ensure construction workers and site environment. (15 Marks)

**Module-5**

- 9 a. What are the benefits of mechanical equipment's in the Construction Industry. (10 Marks)
- b. Explain the different types of equipment employed in concreting operations. (10 Marks)

**OR**

- 10 What are the standard equipment's used for a high rise construction, Elaborate any three with neat sketches. (20 Marks)

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