



CBCS SCHEME

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18ENG85

Eighth Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 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 Explain and elaborate on Project life cycle and its important phases in a typical construction project. (20 Marks)

OR

2 What are organization structures? Describe the types with advantages and disadvantages. (20 Marks)

Module-2

3 Explain the roles and responsibilities of a construction project manager. (20 Marks)

OR

4 Write short notes on :

- Cost Benefit Analysis (05 Marks)
- Computer Applications in Project Management (05 Marks)
- Project Feasibility and its types (05 Marks)
- SWOT Analysis (05 Marks)

Module-3

5 The network of a certain project is shown in the Fig.Q5 below, with the estimated duration of various activities. Determine the following :

- Earliest event times and latest event times (05 Marks)
- Earliest and latest start and finish times of each activity (05 Marks)
- Total and free floats for each activity (05 Marks)
- Critical path for the network (05 Marks)

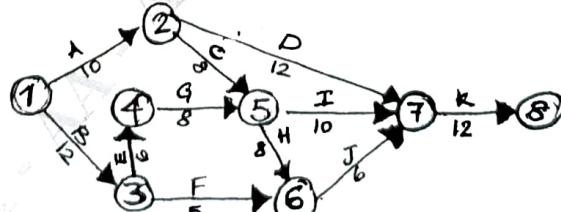


Fig.Q5

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. $42+8 = 50$, will be treated as malpractice.

OR

6 A PERT network along with the three time estimates (in weeks) for each activity is shown in Fig.Q6. Determine

- Computation of expected time t_E and its standard deviation (05 Marks)
- Earliest event times and Latest event times (10 Marks)
- Critical path (05 Marks)

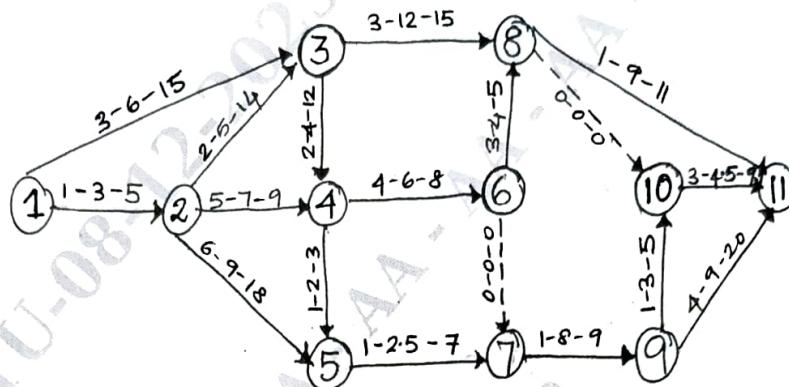


Fig.Q6

Module-4

7 a. Define Quality Control Management. Explain the 4 stages of quality control management. (10 Marks)

b. What are the safety precautions to be undertaken to prevent accidents on construction sites? (10 Marks)

OR

8 a. Explain progress curves and its types. (10 Marks)

b. Explain measurement book and types of bills accounted for in the measurement book. (10 Marks)

Module-5

9 a. Describe the factors affecting extent of mechanization. (10 Marks)

b. Describe the factors affecting selection of construction equipment. (10 Marks)

OR

10 Mention the different types of construction equipment. Describe and sketch any four. (20 Marks)

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