

# 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 :

- a. Cost Benefit Analysis (05 Marks)
- b. Computer Applications in Project Management (05 Marks)
- c. Project Feasibility and its types (05 Marks)
- d. 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 :

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

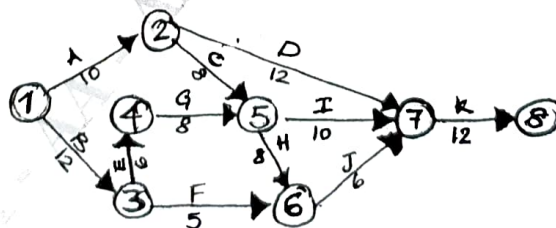


Fig. Q5

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)

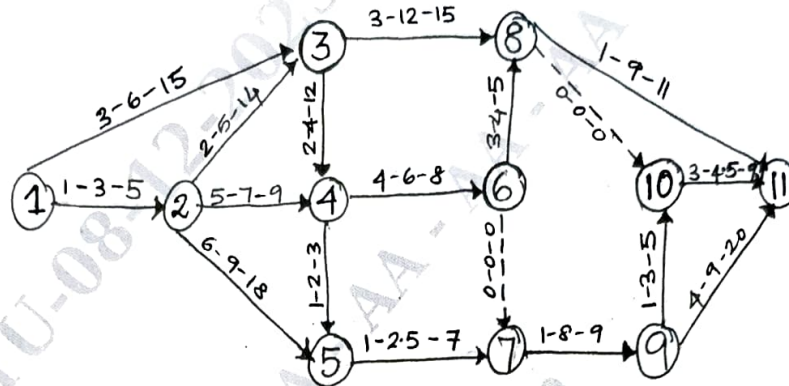


Fig.Q6

**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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