

# CBCS SCHEME

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18ENG85

## Eighth Semester B.Arch. Degree Examination, June/July 2023 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:
- Project scope
  - Project budgeting
  - Project planning
  - Project scheduling.
- (20 Marks)

OR

- 2 Explain in detail the purpose of project management with suitable examples. (20 Marks)

### Module-2

- 3 Write short notes on the following:
- SWOT analysis. (10 Marks)
  - Cost/Benefit analysis. (10 Marks)

OR

- 4 Explain in detail role of the project manager in construction project. (20 Marks)

### Module-3

- 5
- | Activity | Duration in days | Preceding | Following |
|----------|------------------|-----------|-----------|
| A        | 3                | -         | B, C      |
| B        | 2                | A         | D, E      |
| C        | 3                | A         | F         |
| D        | 5                | B         | F         |
| E        | 6                | B, C      | F, G      |
| F        | 5                | D, E      | -         |
| G        | 4                | E         | -         |
- Draw network diagram and find EST, LST, EFT, LFT. (10 Marks)
  - Find Total Float (T.F), Free Float (F.F) and Independent Float (I.F). (10 Marks)

OR

- 6
- | Activity | T <sub>1</sub> | T <sub>2</sub> | T <sub>3</sub> |
|----------|----------------|----------------|----------------|
| AB       | 2              | 5              | 8              |
| AC       | 2              | 4              | 6              |
| BD       | 3              | 5              | 13             |
| BE       | 2              | 3              | 10             |
| CE       | 4              | 6              | 14             |
| CF       | 4              | 8              | 12             |
| EG       | 6              | 9              | 16             |
| FG       | 4              | 10             | 16             |
- Draw the network diagram and find EST, LST, EFT, LFT. (10 Marks)
  - Find Total Float, Free Float and Independent Float. (10 Marks)

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.

**Module-4**

7 Explain in detail the quality audits and process analysis in construction projects. (20 Marks)

OR

8 Explain in detail the process of project measurement and control of the construction projects. (20 Marks)

**Module-5**

9 Explain in detail owning and operating cost of construction equipment. (20 Marks)

OR

10 Write short notes on the following: (10 Marks)

a. Hauling Equipments (10 Marks)

b. Hoisting Equipments. (10 Marks)

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