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# Eighth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020 Project and Construction Management

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

## Module-1

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

#### OR

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

## Module-2

- 3 a. Explain the role of project manager in various stages of construction project. (10 Marks)
  - b. Discuss PM methodologies, frameworks, knowledge areas and process groups. (10 Marks)

#### OR

- Discuss the role of consultants and contractors in various stages of decision making and how computer applications help in this process.

  (08 Marks)
  - b. Write short notes on:
    - i) Decision tree
    - ii) SWOT analysis & Cost-Benefit analysis
    - iii) Project feasibility report
    - iv) Investment criteria in value engineering.

(12 Marks)

#### Module-3

- 5 a. Explain the relevance of WBS in project planning execution and control. (05 Marks)
  - b. As per PMBOK the resource management has series of sub-processes and activities. Kindly explain the sequence of the processes and activities applicable in a project. (15 Marks)

#### OR

6 a. Explain types of costs in a project.

(05 Marks)

b. Explain resource optimization and project crashing.

(05 Marks)

c. Explain construction management techniques project scheduling with suitable examples.

(05 Marks) (05 Marks)

d. What is difference between CPM and PERT, and where they can be applied.

## 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

What is the difference between quality control, assurance and management? 8 (05 Marks)

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)

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Module-5

- Enlist at least five construction equipment one from each category and explain the method of 9 usage.
  - Material handling
  - Concrete mixer b.
  - Tremix system C.
  - Other construction equipments

(20 Marks)

OR

Explain the factors that affect the selection of construction machinery. 10 (10 Marks)

Explain operational and maintenance requirements and methods of construction equipments. (10 Marks)