

CBCS SCHEME

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15ARC86

Eighth Semester B.Arch. Degree Examination, Aug./Sept.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

- 1 Write short notes on :
- Principles and objectives of Project Management. (10 Marks)
 - Phases of Project Management. (10 Marks)

OR

- 2
- Explain in detail the different types of construction companies. (10 Marks)
 - Elaborate the role of Architect / Consultant and contractor after the release of work order. (10 Marks)

MODULE - 2

- 3
- Elaborate on the need for computerization for construction and management. (05 Marks)
 - What is Management Information System (MIS)? (05 Marks)
 - List out the areas in which computers can be beneficial for construction project. (10 Marks)

OR

- 4 Elaborate the different phases of Construction Management. (20 Marks)

MODULE - 3

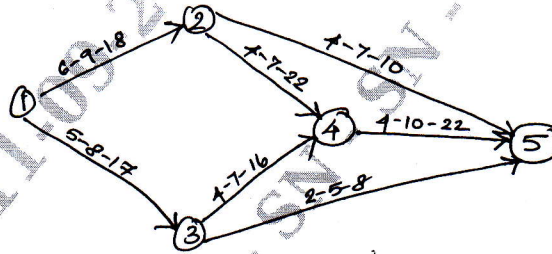
- 5
- Define the following : (10 Marks)
 - Tail event.
 - Activity.
 - Parallel activity.
 - Serial activity.
 - Dummy.
 - Construct the network diagram for a project whose activities are given below : (10 Marks)
 - A is the first operation.
 - B & C can be performed in parallel and are immediate successors to A.
 - D, E & F follow B.
 - G follows E.
 - H follows D, but it cannot start until E is complete.
 - I & J succeed G.
 - F & J precede K.
 - H & I precede L.
 - M succeeds L & K.
 - The last operation N succeeds M & C.

OR

- 6 The following Fig. Q6, shows a network for a construction project with the three time estimates of each activity marked. Determine
- Critical path and its standard deviation.
 - Probability of completion of project in 35 days.
 - Time duration that will provide 95% probability of its completion in time.
- Z values give as follows :

Z +	+ 1.0	+ 1.1	+ 1.6	+ 1.7
Probability (Pr) (%)	84.13	86.43	94.52	95.54

Fig.Q6



(20 Marks)

MODULE - 4

- 7 Write short notes on :

- Defect liability period.
- Bill of materials.
- Security deposit.
- Interim and final certificates.

(20 Marks)

OR

- 8 a. What are the health and safety measures to be followed during construction?
 b. Write a short note on Quality Management in construction.

(10 Marks)
 (10 Marks)

MODULE - 5

- 9 a. Explain various considerations involved in selecting the equipment for construction projects.
 b. Identify and explain any 4 standard equipment used in construction of a high rise building.

(10 Marks)
 (10 Marks)

OR

- 10 a. What are the advantages of mechanization in the Construction Industry?
 b. What are the ways in which one can procure equipment?

(10 Marks)
 (10 Marks)
