

# CBGS SCHEME



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## 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

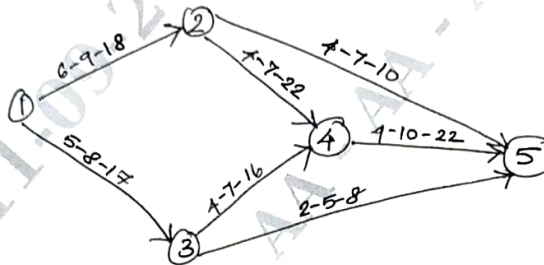
- 5
- Define the following : (10 Marks)
    - Tail event.
    - Activity.
    - Parallel activity.
    - Serial activity.
    - Dummy.
  - Construct the network diagram for a project whose activities are given below : (10 Marks)
    - A is the first operation.
    - B & C can be performed in parallel 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? (10 Marks)  
 b. Write a short note on Quality Management in construction. (10 Marks)

**MODULE - 5**

- 9 a. Explain various considerations involved in selecting the equipment for construction projects. (10 Marks)  
 b. Identify and explain any 4 standard equipment used in construction of a high rise building. (10 Marks)

OR

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

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