

**Total No. of Pages : 02**

**Total No. of Questions : 08**

### **B. Architecture (2012 & Onwards)** **(Sem.-10)**

## CONSTRUCTION MANAGEMENT - I

**Subject Code : BACH-1002**

**Paper ID : [74341]**

**Time : 3 Hrs.**

**Max. Marks : 60**

### INSTRUCTIONS TO CANDIDATES :

1. Attempt FIVE questions including compulsory question no.1
2. Attempt minimum one question from each unit.
3. Assume the missing data if any.

**Q1. Answer briefly :**

- What do you mean by time cost optimization of a project?
  - What is the concept behind work break down structure for a project?
  - What are the difference between bar chart and milestone chart?
  - Write the difference between activity and event.
  - What is the sinking fund method?
- (2×5=10)

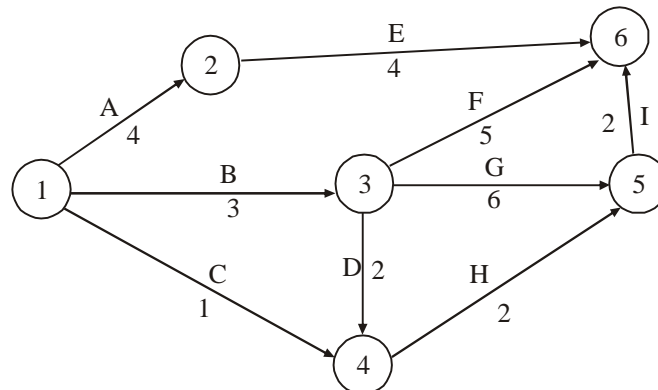
## UNIT-I

- Q2. Discuss the various objectives of project management and Explain Planning, Scheduling and Controlling as a Function of Construction Management. (12.5)
- Q3. a) Enlist the resource scheduling method and explain any one of them in detail. (6.5)
- b) Explain in detail the role of an architect as a project coordinator on construction project. (6.0)

## UNIT-II

- Q4. a) What is a Gantt bar chart? Explain, with the help of a suitable example, the method of preparing a bar chart. (6.5)
- b) Enlist the methods of calculating depreciation. Explain any one of them with suitable example. (6.0)

- Q5. a) What are the reasons for updating of CPM network? Explain each reason and draw updating cycle. (5.0)
- b) The following network shown below has the estimated duration for each activity marked. Determine the critical path. Also determine total float and free float for each activity. (7.5)



- Q6. a) Enlist the resource scheduling method and explain any one of them in detail. (6.5)
- b) Explain in detail the role of an architect as a project coordinator on construction project. (6.0)

### UNIT-III

- Q7. a) Explain in brief how quality control can be assured in any large scale construction project. (6.5)
- b) Discuss the safety measures to be considered at the time of large scale construction project. (6.0)
- Q8. Write short notes on any two of the following :
- a) Security of material on site. (4)
- b) Laying of temporary services on site. (4)
- c) Role of software in construction management. (4.5)