

**DIPLOMA IN CIVIL ENGINEERING  
(DCLEVI) / ADVANCED LEVEL  
CERTIFICATE IN CIVIL ENGINEERING  
(ACCLEVI)**

**Term-End Examination  
June, 2012**

**BICE-023 : CONSTRUCTION MANAGEMENT**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Attempt any five questions. Question No. 1 is compulsory. All questions carry equal marks.*

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1. Mention *True* or *False* for the statements given below : 7x2=14
- (a) The quality of a part depends upon how cheap the particle is.
  - (b) CPM is a technique based on event.
  - (c) The major elements of planning are men, machine, money and materials.
  - (d) CPM is not oriented to activity.
  - (e) A bar chart is unable to depict interdependencies of activities clearly.
  - (f) An owner allocates the estimated cost of the engineer.
  - (g) Slack time in PERT analysis is minimum for critical events.
2. (a) What are the various resources required for construction industry ? 7
- (b) Discuss the different stages in Construction from conception to completion in short. 7

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|----|-----|---|------------------------------|
| 3. | (a) | What are the advantages of CPM and PERT network ?   | 7                            |
|    | (b) | Describe the importance of Construction planning.   | 7                            |
| 4. | (a) | Discuss the principles of organization.   | 7                            |
|    | (b) | Explain the term organization and enlist various functions of an organization.                      | 7                            |
| 5. | (a) | Discuss the factors influencing selection and design of Temporary Services for a Construction site. | 7                            |
|    | (b) | Sketch a typical job layout for organizing labour at site.  | 7                            |
| 6. | (a) | Discuss various indirect and direct costs.  | 7                            |
|    | (b) | What are the steps in analysis of progress ?  | 7                            |
| 7. | (a) | Explain the principles of inspection in detail.   | 7                            |
|    | (b) | Discuss the inspection and quality control of water supply services.                                | 7                            |
| 8. |     | Write short note on <i>any four</i> of the following :  |                              |
|    | (a) | Inspection of electrical services   | $4 \times 3\frac{1}{2} = 14$ |
|    | (b) | Critical path in PERT and CPM   |                              |
|    | (c) | Delegation of authority   |                              |
|    | (d) | Classification of construction  |                              |
|    | (e) | Schedule for machinery  |                              |
|    | (f) | Limitations of bar chart  |                              |
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