

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

**Term-End Examination
June, 2013**

BICE-023 : CONSTRUCTION MANAGEMENT

Time : 2 hours

Maximum Marks : 70

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

1. Select one correct answer from the followings : $7 \times 2 = 14$
- (a) In a construction project, the role of planning is involved in the following stages :
- (i) Tendering stage only
 - (ii) During construction
 - (iii) During design and commissioning
 - (iv) All of these
- (b) A contract is an agreement between :
- (i) Two parties valid in law
 - (ii) Several agencies
 - (iii) Three agencies
 - (iv) Two parties without legal binding

- (c) EMD is deposit equal to :
- (i) 2% of the contract value
 - (ii) 10% of the contract value
 - (iii) 5% of the contract value
 - (iv) None of the above
- (d) Precedence network is also known as :
- (i) A - O - A network
 - (ii) A - O - N network
 - (iii) A - N - O network
 - (iv) A - A - O network
- (e) Public Works Department (P.W.D) is headed by :
- (i) Superintending Engineer
 - (ii) Chief Engineer
 - (iii) Executive Engineer
 - (iv) Asst. Executive Engineer
- (f) The register which contains a permanent and cumulative record of expenditure on each item of work is :
- (i) M - Book
 - (ii) C - Book
 - (iii) Works Register
 - (iv) Nominal muster roll

- (g) The network involves wider analysis and less rigidly structure, is :
- (i) PERT network
 - (ii) CPM network
 - (iii) Decision network
 - (iv) None of these
2. (a) What are the qualities you would look for while appointing a construction manager for large construction project ? 7
- (b) How can construction management knowledge improve the efficiency of the construction industry ? Explain. 7
3. (a) What is planning and why it is important in construction project ? 7
- (b) Describe the stages of planning by different agencies ? 7
4. (a) What do you mean by PERT ? What is its significance ? Explain briefly. 7
- (b) What is critical path ? How is it identified in a network ? 7
5. (a) Explain the general principles to be followed in forming an organisation system. 7
- (b) Discuss the advantages and disadvantages of a line organisation. 7

6. (a) Discuss the applications of linear programming methods in cost and time optimization in the case of a construction project. 7
- (b) Explain briefly 'Direct cost and Indirect cost. 7
7. (a) Discuss the importance of inspection and quality control in construction project. 7
- (b) What are the important points to be observed during inspection of water supply and sanitary lines ? 7
8. Write short notes on *any four* of the following : 3.5x4=14
- (a) Materials Management
- (b) SLACK
- (c) Scheduling
- (d) Project updating
- (e) Factors affecting selection of construction site
- (f) Dummy activity
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