

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

**Term-End Examination**

**00414**

**June, 2017**

**BICE-023 : CONSTRUCTION MANAGEMENT**

*Time : 2 hours*

*Maximum Marks : 70*

**Note : Answer any five questions. Question no. 1 is compulsory.**

1. Mention *True* or *False* for the statements given below :  $7 \times 2 = 14$
- (a) A critical activity has maximum float.
  - (b) Cost of overheads comes under direct cost.
  - (c) PERT time estimates follow probabilistic approach.
  - (d) Inspection and Sampling are part of quality control.
  - (e) An agreement between a promisor and a promisee is called a contract.
  - (f) CPM is an activity based network technique.
  - (g) The flow of command in line organisation is unidirectional.

2. Explain the various stages in a construction project cycle. Give suitable examples. 14
3. What are the objectives of Construction Management? Also explain the various functions of Construction Management. 14
4. A typical construction project consists of 8 activities. The relationship between the activities and their duration is given below. Draw the CPM network and find the duration of the project. Calculate the Total Float and show the Critical Path. 14

Activity Relationship	Duration
A - B	6
A - C	7
A - D	8
B - E	7
B - G	8
C - D	4
C - F	4
D - E	9
E - F	5
E - G	6
F - G	6
G - H	9

5. What are the various types of expenses in a construction project? Explain with suitable examples. 14
6. Explain various types of organisations. Write their relative merits and demerits. 14
7. Explain the various factors that affect the selection of equipment. 14
8. Write short notes on the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Shortcomings of Bar Chart
  - (b) Span of Control
  - (c) Difference between PERT and CPM
  - (d) Unity of Command
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