

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

00626 **Term-End Examination**

June, 2015

BICE-023 : CONSTRUCTION MANAGEMENT

Time : 2 hours

Maximum Marks : 70

Note : *Question no. 1 is compulsory. Answer any four from questions no. 2 to 8. Assume data, if necessary. All questions carry equal marks.*

1. Mention *True/False* for the statements given below :

7×2=14

- (a) A golden rule for the procurement of construction stores is that two-third of the construction stores should be at work site and one-third under procurement.
- (b) A critical activity has maximum float.
- (c) The first stage of a construction is survey of the site and then initiation of proposal.
- (d) The estimated time required to perform an activity is known as duration.
- (e) In PERT, pessimistic time is the maximum time which an activity might require.

- (f) The record in which attendance of the workers is maintained on projects, is called "Master Roll".
- (g) "Salvage Value" of an equipment is its value at the end of 5 years.
2. (a) Explain the functions of construction management. 7
- (b) Describe the role of Engineers and Contractors in project management. 7
3. (a) List the various parties involved in project management. Explain each of them. 7
- (b) What is bar chart ? Write advantages and disadvantages of bar chart. 7
4. (a) Discuss the principles of storing and stacking materials at site. 7
- (b) Explain the difference between PERT and CPM. 7
5. (a) What do you mean by resource scheduling ? Write scheduling by highlighting men, machines, materials and money. 2+5=7
- (b) Describe the various types of organization in construction industry. 7
6. (a) Explain in detail the principles of inspection and quality control of Earthwork. 7
- (b) Discuss the inspection and quality control of Reinforced Cement Concrete (RCC) work. 7

7. From the following data, prepare the network diagram, decide the completion period and complete the critical path schedule.

14

Activity Item	Duration in days	Activity immediately	
		Preceding	Following
A	4	None	C, D
B	5	None	D
C	7	A	E, F
D	6	A, B	G
E	8	C	None
F	5	C	None
G	6	D	None

8. Write short notes on any *four* of the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Schedule for Materials
- (b) Classification of Construction
- (c) Earth Moving Equipment
- (d) Concreting Equipment
- (e) Dummy Activity
- (f) Free Float