

00155

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

**Term-End Examination
June, 2014**

BICE-023 : CONSTRUCTION MANAGEMENT

Time : 2 hours

Maximum Marks : 70

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- Note :** (i) *Attempt any five questions with question no. 1 as compulsory.*
- (ii) *All questions are to be answered in English language only.*
- (iii) *Each question carry equal marks.*
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1. Choose the correct answer from the given choice : 2x7=14
- (a) The quality of a part does not depend upon :
- (i) How cheap the part is
 - (ii) How well the parts performs its function
 - (iii) How reliable the performance of the part
 - (iv) How far the performance can be maintained
- (b) Pessimistic time estimate :
- (i) t_o
 - (ii) t_p
 - (iii) t_l
 - (iv) t_m

- (c) The use of CPM lies in :
 - (i) Taking corrective measure
 - (ii) Scheduling and taking corrective measures
 - (iii) Planning and controlling the operation
 - (iv) Planning such project, where activity time can not be reliably predicate
- (d) Float is associated with the :
 - (i) activity time
 - (ii) event time
 - (iii) objective
 - (iv) none of these
- (e) Line, staff and functional are part of organization. (True/False)
- (f) In forward planning, the planner starts with the end event. (True/False)
- (g) If the project duration is decreased to the crash value, project cost will be the highest. (True/False)

2. A project has been defined to contain the following list of activities, along with their required times for completion : 14

Activity	Time (days)	Immediate Predecessors
A	1	-
B	4	A
C	3	A
D	7	A
E	6	B
F	2	C. D
G	7	E. F
H	9	D
I	4	G. H

- (a) Draw the critical path diagram.
 - (b) Show the early start and early finish times.
 - (c) Show the critical path.
 - (d) What would happen if activity F was revised to take four days instead of two ?
3. Explain the assumptions underlying PERT and CPM Network models applied in project management. 14
4. What is delegation of authority and principles of delegation of authority ? 14
5. What is construction management ? Explain significance of construction management giving suitable examples. 14
6. How the construction work is classified as light, heavy and industrial construction ? 14
7. What are various indirect expenses ? Which of them are essential in estimating the total cost ? 14
8. Write short notes on any four of the following :
- (a) Principle of storing material 4x3¹/₂=14
 - (b) Quality control in construction
 - (c) Objective of construction planning
 - (d) Indirect expenses
 - (e) Dummy activity
 - (f) Bar chart
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