

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

Term-End Examination

December, 2016

00203

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 Project Manager has maximum authority in a matrix organization structure.
 - (b) When time is the essence of contract, full payment by the employer is delayed.
 - (c) 'Slack' is the extra time available to perform an activity without affecting the project completion time.
 - (d) PERT is used for scheduling product development projects.
 - (e) Critical path is the longest path in the project network.

- (f) Resource levelling exercise uses activity floats to reschedule activities, without delaying project completion.
- (g) Direct costs are nothing but all the project overheads.
2. What are the objectives and principles of planning? List the steps involved in planning. 14
3. What are the methods of scheduling? Explain with the help of a suitable example, the method of preparing a bar chart. 14
4. (a) What do you mean by PERT? What is its significance? Explain briefly. 7
- (b) What are the time estimates used in PERT? Explain their significance. 7
5. Explain the importance of organisation in construction activities. Discuss the advantages and disadvantages of line organisation. 14
6. What are the important points to be observed during inspection of water supply and sanitary lines? 14
7. Explain the use of documentation and quality control circles in construction quality management. 14

8. Write short notes on any *two* of the following : $2 \times 7 = 14$

- (a) Direct and Indirect Costs
 - (b) Delegation of Authority
 - (c) Quality Control for Electrical Services
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