No. of Printed Pages : 3

BCE-051

DIPLOMA IN CIVIL ENGINEERING
DCLE(G)

00662 **Term-End Examination**

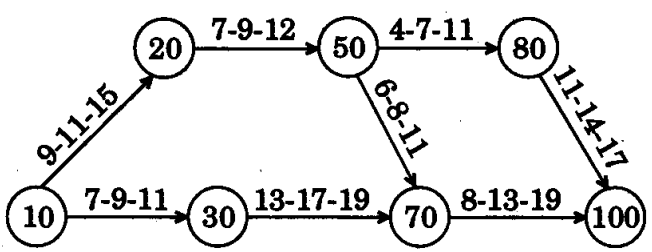
December, 2016

BCE-051 : CONSTRUCTION MANAGEMENT

Time : 2 hours *Maximum Marks : 70*

Note : *Answer any* ***five*** *questions. Use of scientific calculator is permitted.*

1. In the network, shown below, for each activity the optimistic, the most likely and the pessimistic time estimates are given. If 10 and 100 are the start and end events respectively, find the critical path through the network. *14*



2. (a) What are tender documents ? Discuss briefly the contents of typical tender documents.

(b) Explain lump sum contract and labour contract. *2×7=14*

3. Explain the Productivity and Quality at construction site. What are the factors which affect them ? Explain at least six factors affecting them. *2+6+6=14*

4. (a) What do you understand by training and certification of tradesmen or labour ? How will this affect the construction industry ?

(b) What points should you keep in mind while setting up a labour camp ? List out the essential facilities to be provided. *5+9=14*

5. (a) Enumerate three factors required for site selection.

(b) Explain the precautions to be taken for the storage of the following :

(i) Cement

(ii) Steel

(iii) Plywood/Boards *7+7=14*

6. Define the following : $7 \times 2 = 14$

(a) Earliest Event Time

(b) Slack time

(c) Latest Start Time

(d) Critical Activity

(e) Float

(f) Cyclograph for Construction

(g) Operational Control at Supervisory Level

7. Write short notes on the following : $4 \times 3\frac{1}{2} = 14$

(a) Addenda in Tender Document

(b) Responsibility of a Contractor

(c) Disputes

(d) Retention Money