

DIPLOMA IN CIVIL ENGINEERING
DCLE(G)

Term-End Examination

June, 2017

00073

BCE-051 : CONSTRUCTION MANAGEMENT

Time : 2 hours

Maximum Marks : 70

Note : Question no. 1 is **compulsory**. Answer any **four** out of the remaining questions.

1. A project has the following set of activities with duration and predecessors :

Activity	Predecessor	Duration (Weeks)
A	–	7
B	–	3
C	–	9
D	A, B	4
E	C, D	6
F	C, D	8
G	E, F	2
H	G	6

- (a) Draw a network diagram showing EOT and LOT of all the events.

- (b) Determine the total duration of the project and show critical path on the network diagram. $7+7=14$
2. Explain the characteristic features of the following contracts : $7+7=14$
- (a) Lump Sum Contract
- (b) Item Rate Contract
3. What is the purpose of Consumer Courts ? Describe the duties and powers awarded to Consumer Courts. 14
4. Describe various provisions of the Indian Arbitration Act with respect to the following features : $4 \times 3 \frac{1}{2} = 14$
- (a) Arbitration Agreement
- (b) Number of Arbitrators
- (c) Arbitral Awards
- (d) Arbitration Proceedings
5. Explain the typical functions performed by the executives during the Project Execution Phase and Project Control Phase. $7+7=14$

6. What do you understand by site investigation ?
What information is required for site investigation ? Enlist various activities undertaken during site investigation. 14

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

- (a) Direct and Indirect Costs
 - (b) Workers Training and Screening
 - (c) Level and Certification of Workers
 - (d) Productivity Calculation
 - (e) National Occupation Standards Framework
 - (f) Bar Chart
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