

**DIPLOMA IN CIVIL ENGINEERING
DCLE(G)**

Term-End Examination

June, 2015

00031

BCE-051 : CONSTRUCTION MANAGEMENT

Time : 2 hours

Maximum Marks : 70

Note : *Question no. 1 is compulsory. Attempt any four questions from the remaining questions.*

1. Select the most appropriate answer from the given alternatives in questions (a) to (g) below.

7×2=14

- (a) Broadly speaking, the basic activities in a construction project can be grouped into three main categories. Find the odd one out of the following options :
- (i) Designing and planning
 - (ii) Construction execution
 - (iii) Inspection and supervision
 - (iv) Sale of constructed facilities at a subsidised rate
- (b) In a construction project, needed finances are provided by the
- (i) owner
 - (ii) engineer
 - (iii) contractor
 - (iv) police

- (c) The tendency to achieve lower cost overheads in a construction project may affect the
- (i) quality of construction
 - (ii) safety
 - (iii) Both of the above
 - (iv) None of the above
- (d) In which of the following phases of a construction project is the level of effort the highest ?
- (i) Initiation
 - (ii) Planning
 - (iii) Execution
 - (iv) Closing of project
- (e) In the fast track approach of construction
- (i) overlapping phases are present
 - (ii) high degree of co-ordination is needed
 - (iii) complexities are involved
 - (iv) All the above three alternatives are correct
- (f) Which of the following may be connected with site investigation for a project ?
- (i) Contouring of area
 - (ii) Site drainage
 - (iii) Type of soil
 - (iv) All of the above

- (g) Which of the following is connected with safety for a construction project ?
- (i) Distribution of salaries to workers
 - (ii) Fencing of site
 - (iii) Inauguration of project
 - (iv) Site investigation
2. (a) Briefly discuss how labour quality may affect a construction project. 7
- (b) Explain how the seasonwise mobility of labour force may affect the speed of construction of a project. 7
3. (a) What do you understand by 'close-up phase' of a construction project ? Describe any one activity taken up in this phase briefly. 7
- (b) Explain how site drainage is important for a project. 7
4. (a) Explain the importance of site lighting in a construction project. 7
- (b) What are guard towers ? Briefly discuss some considerations connected with them. 7
5. (a) List some precautions to be taken in the storage of cement at a construction site. 7
- (b) Write a brief note on quality of water used for mixing and curing of concrete. 7

6. (a) What do you understand by a work breakdown structure ? Discuss with a brief example. 7
- (b) Explain the use of a bar chart schedule in a construction project. 7
7. (a) What do you understand by a construction contract ? Write some considerations related to a unit price contract. 7
- (b) Discuss the need of project insurance briefly. 7
8. Write short notes on any *two* of the following topics : $2 \times 7 = 14$
- (a) Mediation of disputes
- (b) Pre-qualification of contractors
- (c) Technical specifications for a project
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