

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

00471 Term-End Examination

December, 2015

**BCE-051 : CONSTRUCTION MANAGEMENT**

*Time : 2 hours*

*Maximum Marks : 70*

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

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1. Select the most appropriate answer from the given alternatives in questions (a) to (g) given below :  $7 \times 2 = 14$
- (a) Which of the following comes first ?
- (i) Feasibility study
  - (ii) Design and execution
  - (iii) Project close-up phase
  - (iv) Need identification
- (b) Typical characteristics of Indian construction industry are
- (i) Seasonality of labour force
  - (ii) Multiplicity of agencies
  - (iii) Both (i) and (ii)
  - (iv) None of the above

- (c) Normally the most time consuming phase of a project is linked to
  - (i) Planning
  - (ii) Initiation of project
  - (iii) Execution
  - (iv) Closing up of the project
  
- (d) The most accurate estimate is
  - (i) Order of magnitude estimate
  - (ii) Preliminary control estimate
  - (iii) Definitive estimate
  - (iv) Detailed estimate
  
- (e) Which of the following is a source of finance ?
  - (i) Site drainage
  - (ii) Fencing of site
  - (iii) Equity
  - (iv) Guard towers
  
- (f) Which of the following should be considered for site selection ?
  - (i) Natural factors
  - (ii) Social factors
  - (iii) Aesthetic factors
  - (iv) All of the above

(g) Which of the following is/are considered in site investigation ?

(i) Nature of subsoil

(ii) Financing of the project

(iii) Ownership of the project

(iv) All of the above

2. (a) Briefly discuss about the various groups of stakeholders involved in a construction project. 7

(b) Discuss why proper supervision is important for a construction project. 7

3. (a) What do you understand by site planning ? Explain briefly. 7

(b) Discuss how site organisation in a construction project can be made efficient. 7

4. (a) Briefly explain the various aspects so that safety at a construction site can be enhanced. 7

(b) Write various advantages derived due to proper lighting at a construction site. 7

5. (a) Describe the use of a bar chart as a project planning technique. 7
- (b) Write the various activities in the construction of raft foundation for a building. Providing various durations to these activities, construct a CPM network for them. 7
6. (a) Discuss why project cost control is important for a construction project. 7
- (b) What is meant by a construction contract ? Briefly describe any one essential element of such a contract. 7
7. (a) What do you understand by 'Resolution of disputes' in reference to a construction project ? Describe, briefly, its relevance for project completion in time. 7
- (b) What are the various duties of consumer courts ? 7
8. Write short notes on any *two* of the following topics : 2×7=14
- (a) Tender
- (b) Termination of contract
- (c) Storage for materials and general precautions to be taken
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