

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

**Term-End Examination**

**June, 2018**

00943

**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. (a) Briefly explain the importance of training and development of a construction worker. 4
  - (b) Name any three basic trades which are most important at site. 3
  - (c) How do you categorise a worker as unskilled/semi-skilled/skilled at site? 3
  - (d) Suggest a module for workers training at site. 4
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2. As site supervisor, list out any four quality checks in each of the following works at site : 5+5+4
    - (a) Reinforcement of a column
    - (b) Shuttering and formwork of a beam
    - (c) Tiling of a floor

3. Briefly explain the roles and responsibilities of the following at site :  $4 \times 3 \frac{1}{2} = 14$

- (a) Construction/Site Engineer
- (b) Supervisor/Foreman
- (c) Executing Sub-Contractor
- (d) HR and Administration person

4. (a) Explain the purpose of tender documents. What are the typical contents of a tender document ? 7

(b) Explain how a construction contract can affect the quality and productivity at a construction site. Explain the features which can make this happen. 7

5. (a) Explain in brief, the important aspects of pictorial and structural drawings with suitable sketches. 6

(b) Draw architectural symbols for the following :  $4 \times 2 = 8$

- (i) Exhaust fan
- (ii) Sliding door (single)
- (iii) Water closet (western)
- (iv) Staircase

6. (a) List out any three construction labour welfare schemes and explain one of them in detail. 8
- (b) What facilities and infrastructure should be provided for a labour colony for hygiene and sanitation? 6
7. Write short notes on any *two* of the following :  $2 \times 7 = 14$
- (a) Cost-time trade-off
- (b) Methods of charging depreciation
- (c) Productivity of site
- (d) Safety induction of labour
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