

**DIPLOMA IN CIVIL ENGINEERING (DCLE(G)/  
ADVANCED LEVEL CERTIFICATE COURSE IN  
CIVIL ENGINEERING (DCLEVI/ACCLEVI)**

**Term-End Examination, 2019**

**0563**

**BCE-024 : CONSTRUCTION TECHNOLOGY-I**

**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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**Note :** Choose the correct alternative : [7×2=14]

1. (a) The type of footing which is used to transmit heavy loads through steel column is :
- (i) Grillage foundation
  - (ii) Raft foundation
  - (iii) Well foundation
  - (iv) Isolated footings



(b) The walls which help in maintaining the surface of the ground at different elevations on either side of the structure is known as :

- (i) Partition wall
- (ii) Retaining wall
- (iii) Cavity wall
- (iv) Pier

(c) The depression in the face of a brick provided to form a key for holding the mortar is called :

- (i) Header
- (ii) Stretcher
- (iii) Frog
- (iv) Fog

(d) The end support of an arch is called :

- (i) Pier

- (ii) Soffit
  - (iii) Centre
  - (iv) Abutment
- (e) The type of window provided on the sloping side of a pitched roof is called :
- (i) Dormer Window
  - (ii) Gable Window
  - (iii) Lantern
  - (iv) Corner Window
- (f) The best location for DPC in case of buildings without basement lies at :
- (i) Ground level
  - (ii) Plinth level
  - (iii) 15 cm above ground level
  - (iv) 1 m above ground level

- (g) The type of flooring which is perfectly noiseless is known as :
- (i) Terrazo flooring
  - (ii) Glass flooring
  - (iii) Cork flooring
  - (iv) Mosaic flooring
2. (a) Describe the various types of shallow foundations with the help of a systematic sketch. [7]
- (b) Discuss the factors required to be considered while deciding the depth of foundation. [7]
3. (a) Describe briefly the different systems of building structures. [7]
- (b) Describe different types of partitions giving the merits and demerits of each. [7]
4. (a) Discuss the post-construction anti-termite treatment. [7]

- (b) Describe the various steps required to be taken to prevent dampness in buildings. [7]
5. (a) What do you understand by Lintels ? Describe in brief the various types of lintels used in modern construction. [7]
- (b) Discuss the various functions served by an Arch. [7]
6. (a) Describe the classification of doors in brief. [7]
- (b) Define floors. Also describe its components. [7]
7. Write short notes on the following : [4×3½=14]
- (i) Partition Wall
- (ii) Reinforced Brick Work
- (iii) Scaffolding
- (iv) Combined Footing
8. Differentiate between the following : [4×3½=14]

- (a) Shallow and Deep Foundations
- (b) Stone and Brick Masonry
- (c) Damp-proofing and Water-proofing
- (d) Fixed and Pivoted Windows

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