

**DIPLOMA IN MECHANICAL ENGINEERING  
(DME)**

**Term-End Examination, 2019**

**BCE-025 : ELEMENTARY CIVIL ENGINEERING**

**Time : 2 Hours]**

**[Maximum Marks : 70**

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**Note : Attempt any five questions. Question No. 1 is compulsory. All questions carry equal marks.**

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1. Write True or False of the following : [2×7=14]
- (a) Under surface of a stair is called Soffit.
  - (b) For face work, only first class bricks are used.
  - (c) Jhama is the name given to overburnt bricks.
  - (d) The process of mixing quick lime into water is called Slaking.
  - (e) The Void ratio of soil can exceed unity.
  - (f) Friction piles are called floating piles

- (g) Mild steel cannot be used for manufacture of cutting tools.
2. (a) What is the role of Civil Engineer in various construction activities. [7]
- (b) Explain in brief Shallow and Deep foundations. [7]
3. (a) Describe different methods to determine bearing capacity of Soil. [7]
- (b) State various methods of improving bearing capacity of Soil. [7]
4. (a) Differentiate between Stone and Brick masonry. [7]
- (b) Explain different types of bonds in Brick masonry. [7]
5. (a) Explain process diagram of Concrete. [7]
- (b) Explain the batching of Concrete. [7]
6. (a) Describe various types of Steel truss. [7]
- (b) Discuss various types of Steel sections. [7]

7. Write short notes on **any four** of the following :[4+3½=14]

- (a) Location of windows
- (b) Types of doors and windows
- (c) Marble flooring
- (d) Timber flooring
- (e) Types of plastering
- (f) Water proofing

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