

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

Term-End Examination

00672

June, 2019

BCE-043 : CONSTRUCTION TECHNOLOGY – II

Time : 2 hours

Maximum Marks : 70

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

1. Select the correct answer from the given options in questions (a) to (g) below : $7 \times 2 = 14$

(a) Setting time tests are conducted on

- (i) bricks
- (ii) concrete
- (iii) sand
- (iv) cement

(b) Compressive strength may be given in

- (i) Nm
- (ii) N/mm^3
- (iii) N/mm
- (iv) N/mm^2

- (c) Efflorescence test may be done on
- (i) cement
 - (ii) timber
 - (iii) bricks
 - (iv) steel
- (d) Cause(s) of fires in buildings may be
- (i) Ignorance
 - (ii) Carelessness
 - (iii) Breaking of rules of fire safety
 - (iv) All of the above
- (e) For fire safety, reinforced concrete columns may be provided with
- (i) increased cover on reinforcement
 - (ii) Gypsum plaster boards on surfaces
 - (iii) Both of the above
 - (iv) None of the above
- (f) Which of the following may *not* be a defect ?
- (i) Echo
 - (ii) Reverberation
 - (iii) Loudness
 - (iv) Ventilation

- (g) Functional requirements of ventilation include
 - (i) Temperature
 - (ii) Humidity
 - (iii) Purity of air
 - (iv) All of the above

- 2. (a) Describe the aims of supervision of a building during its construction. 7
- (b) What are various work site documents ? Explain briefly. 7

- 3. (a) Briefly explain why testing of construction materials is important. 7
- (b) Discuss the importance of good drainage at a construction site. 7

- 4. (a) Describe a method of fire protection for a building. 7
- (b) Explain "Artificial Ventilation" in brief. 7

- 5. (a) Explain the term 'Sound Focus' with a neat sketch. 7
- (b) Discuss the importance of sound insulation for important buildings such as hospitals etc. 7

- 6. (a) Explain working of a smooth wheel roller in brief. 7
- (b) What is damp proofing ? What is its importance ? Explain briefly. 7

7. Write short notes on any *two* of the following: 2×7=14

- (a) Use of pre-cast components in construction
 - (b) Importance of quality control in construction
 - (c) Importance of regular maintenance of buildings
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