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**BCE-043**

**DIPLOMA IN CIVIL ENGINEERING**

**DCLE(G)**

**Term-End Examination**

**December, 2019**

**BCE-043 : CONSTRUCTION TECHNOLOGY-II**

*Time : 2 Hours*

*Maximum Marks : 70*

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*Note : Question No. 1 is compulsory. Answer any four questions from the remaining part. All questions carry equal marks.*

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1. Choose the correct alternative in each of the following questions :  $7 \times 2 = 14$

(a) All forces in a building move towards :

(i) the top

(ii) slabs

(iii) one side

(iv) foundation

- (b) Which of the following are primarily subjected to axial forces ?
- (i) beams
  - (ii) columns
  - (iii) slabs
  - (iv) staircase
- (c) Which may be the correct way of showing grade of concrete ?
- (i) M-20
  - (ii) MM-30
  - (iii) Fe-40
  - (iv) T-20
- (d) Bull's trench Kiln is used for manufacture of :
- (i) steel
  - (ii) plastic products
  - (iii) glass items
  - (iv) bricks
- (e) Which of the following is ductile ?
- (i) Glass
  - (ii) Stone
  - (iii) Brick
  - (iv) Steel

- (f) Which of the following may be used for good quality work ?
- (i) Well burnt bricks
  - (ii) Pila or soft bricks
  - (iii) Overburnt bricks
  - (iv) Jhama bricks
- (g) 'Frog' is provided in :
- (i) Glass items
  - (ii) Steel products
  - (iii) Bricks
  - (iv) Marble slabs
2. (a) Write a note on aims of supervision of construction. 7
- (b) Describe any *one* test conducted on cement. 7
3. (a) Briefly discuss, why regular maintenance of buildings is important. 7
- (b) Explain, how various types of accidents at a construction site may be reduced. 7
4. (a) Discuss various causes of fire incidents in buildings. 7
- (b) Describe some ways of fire protection in buildings. 7

5. (a) Describe various shapes of rolled steel sections. 7
- (b) Write some advantages of steel construction in buildings. 7
6. (a) Describe various types of steel connections. 7
- (b) Discuss importance of good ventilation in buildings briefly. 7
7. Write short notes on any *four* of the following :
- $4 \times 3\frac{1}{2} = 14$
- (a) Acoustics and sound insulation
- (b) Construction equipments
- (c) Prefabrication
- (d) Leakages in buildings
- (e) Types of foundations
- (f) Uses of bitumen