

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

**Term-End Examination**

**December, 2016**

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

*Time : 2 hours*

*Maximum Marks : 70*

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

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1. Select the correct answer from the given options : 7×2=14

(a) A separate register known as 'Work Diary' is maintained in the case of original works over

- (i) ₹ 10,000
- (ii) ₹ 50,000
- (iii) ₹ 1,00,000
- (iv) ₹ 70,000

(b) Red Mark fire extinguishers contain

- (i) Water
- (ii) CO<sub>2</sub> gas
- (iii) Foam
- (iv) None of these

- (c) The travel distance of the remotest building corner to the stairway shall *not* be more than 22.50 m for
- (i) residential buildings
  - (ii) business buildings
  - (iii) Both (i) and (ii)
  - (iv) None of these
- (d) The usual temperature difference between inside and outside for good ventilation should *not* be more than
- (i) 20°C to 30°C
  - (ii) 50°C to 60°C
  - (iii) 8°C to 10°C
  - (iv) 100°C
- (e) 1200 × 1000 mm crusher has a mouth opening of
- (i) 600 × 500 mm
  - (ii) 1200 × 1000 mm
  - (iii) 2400 × 2000 mm
  - (iv) 400 × 1000 mm
- (f) Reducing the water – cement ratio
- (i) increases the compression strength
  - (ii) improves workability
  - (iii) Both (i) and (ii)
  - (iv) None of these

- (g) The reflected sound waves may pass through a common point, creating a sound of large intensity with unusual soundness termed as
- (i) Dead spots
  - (ii) Reverberation
  - (iii) Echoes
  - (iv) Sound foci
2. Discuss the functions which are common in all types of building types and categories. 14
3. (a) Discuss the priorities while preparing an annual maintenance programme. 7
- (b) What are the steps for planning annual maintenance of MES assets? 7
4. (a) Explain the fire resisting properties of building materials. 7
- (b) Discuss the three actions taken by a fire-fighting system. 7
5. Describe the various methods used for making connections in steel structures. 14
6. (a) Explain the requirements of good acoustics. 7
- (b) Explain the acoustic design parameters in brief. 7

7. Write short notes on any **four** of the following :  $4 \times 3 \frac{1}{2} = 14$

- (a) Ground Improvement Technique
  - (b) Constructional Defects Causing Leakage
  - (c) Methods of Ventilation
  - (d) Rolled Steel Sections
  - (e) Types of Road Rollers
  - (f) Reverse Drum Mixer
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