

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

**Term-End Examination**

**June, 2015**

00563

**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 ones. All questions carry equal marks.*

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1. Choose the correct alternative in questions (a) to (g). 7×2=14

(a) Water absorption test is used for

- (i) Steel
- (ii) Cement
- (iii) Bricks
- (iv) Timber

(b) Which of the following is a non-hazardous material in the assessment of fire grading ?

- (i) Glass
- (ii) Timber
- (iii) Ammunition
- (iv) Fuel

- (c) Distance between adjacent rivet lines is called gauge length.
- (i) True
  - (ii) False
- (d) Acceptable noise level in dB for radio stations and TV studios is
- (i) 25 to 30
  - (ii) 45 to 55
  - (iii) 50 to 60
  - (iv) 60 to 65
- (e) Sheep's foot roller is used for
- (i) Sandy Soil
  - (ii) Clayey Soil
  - (iii) Water-bound macadam
  - (iv) All of the above
- (f) Cone crushers are used to produce final product.
- (i) True
  - (ii) False
- (g) Size of 19 cm × 9 cm × 9 cm has been adopted for
- (i) Engineering bricks
  - (ii) Perforated bricks
  - (iii) Modular bricks
  - (iv) Conventional bricks

2. (a) What documents should be maintained at site ? Enlist the names of some of them and describe any one briefly. 7
- (b) What is the aim of building maintenance ? Discuss briefly. 7
3. (a) Explain fire load. 7
- (b) Explain briefly a method of fire proofing of buildings. 7
4. Describe briefly the various methods used for making connections in steel structures. 14
5. Explain any one natural and one artificial method of ventilation in a building. 14
6. (a) Describe a hot mix plant. 7
- (b) What are the common defects causing seepage in buildings ? Discuss briefly. 7
7. Write short notes on any **four** of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Granular Piles
- (b) Thermal Insulation of Roofs
- (c) Sound Insulation
- (d) Site Organisation
- (e) Trouble-shooting of Equipments
- (f) Lift Slab Construction
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