

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

Term-End Examination

June, 2016

00560

BCE-043 : CONSTRUCTION TECHNOLOGY – II

Time : 2 hours

Maximum Marks : 70

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

1. Choose the correct alternative in questions (a) to (g), given below : $7 \times 2 = 14$
- (a) Soundness test is done on
- (i) Coarse aggregate
 - (ii) Fine aggregate
 - (iii) Cement
 - (iv) Concrete
- (b) While carrying out repairs of which of the following, their old character and old specification are retained
- (i) Roads
 - (ii) New buildings
 - (iii) Bridges
 - (iv) Heritage buildings

- (c) Ammunitions, explosives and fuels are taken to be
- (i) Non-hazardous
 - (ii) Hazardous
 - (iii) Extra-hazardous
 - (iv) A little hazardous
- (d) Which of the following actions may not provide fire protection to a cement concrete column ?
- (i) Providing greater cover thickness
 - (ii) Providing greater diameter
 - (iii) Providing gypsum board covering on column surface
 - (iv) Providing lesser diameter to column
- (e) Which of the following is *not* a functional requirement of the ventilation system of a building ?
- (i) Air changes and rate of supply of fresh air
 - (ii) Humidity
 - (iii) Temperature
 - (iv) Cost

- (f) High strength bolts are manufactured from
- (i) Mild steel
 - (ii) Cast iron
 - (iii) Medium carbon steel
 - (iv) Wrought iron
- (g) Out of the following, Acceptable noise level is the minimum for
- (i) Factories
 - (ii) Residential buildings
 - (iii) Radio stations
 - (iv) Schools

2. (a) Write a note on the documents which are maintained at a construction site. 7
- (b) Briefly discuss the advantages of regular maintenance of buildings. 7
3. (a) Discuss any two factors which may cause the initiation of a fire development. 7
- (b) Describe the fire escape elements briefly. 7
4. (a) Write any three advantages of welded connections. 7
- (b) Discuss briefly the general features of acoustic design of a building. 7

5. (a) Describe a method of artificial ventilation. 7
(b) Enlist the types of stone crusher. Write the advantages of any one of these types. 7
6. (a) What do you understand by servicing of equipment ? What advantages may be associated with it ? 7
(b) Explain any one application of bituminous compounds in building construction. 7
7. Write short notes on any *two* of the following : $2 \times 7 = 14$
- (a) Cavity wall construction
 - (b) Prefabricated wall panels
 - (c) Rollers
 - (d) Supervision after construction
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