

00658

**DIPLOMA IN CIVIL ENGINEERING  
(DCLEG)**

**Term-End Examination  
June, 2013**

**BCE-062 : CONSTRUCTION SUPERVISION  
AND BUILDING MAINTENANCE**

*Time : 2 hours*

*Maximum Marks : 70*

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*Note : Question number 1 is **compulsory**. Attempt **any four** questions from the remaining questions.*

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1. Select the most appropriate answer from the given alternatives in the following multiple choice questions (a) to (g) below. 2x7=14
- (a) Information about plumbing for water supply may be given in :
- (i) Architectural drawings
  - (ii) Structural drawings
  - (iii) Service drawings
  - (iv) None of the above
- (b) Which of the drawing sheet size is correct :
- (i) 820 mm × 1240 mm
  - (ii) 830 mm × 1240 mm
  - (iii) 841 mm × 1240 mm
  - (iv) 841 mm × 1189 mm

- (c) What record is maintained to mark the attendance of directly employed workmen ?
- (i) Tender                      (ii) Contract  
 (iii) specifications      (iv) Muster roll
- (d) Excavation is done by blasting in :
- (i) Clayey soil              (ii) Alluvial soil  
 (iii) rock                      (iv) soft soils
- (e) IS-383 is concerned with :
- (i) Cement                      (ii) Foundations  
 (iii) aggregates              (iv) Water quality
- (f) Shakes is a defect of :
- (i) steel                      (ii) bricks  
 (iii) timber                      (iv) pipes
- (g) Chip mark is defect in timber, caused due to :
- (i) Conversion              (ii) fungi  
 (iii) Insects                      (iv) natural forces

2. (a) What do you understand by specifications ? 7  
 Why are they needed ? Discuss briefly.
- (b) What are Indirect costs ? Write names of 7  
 any four indirect costs and describe any one briefly.
3. (a) Explain what do you understand by "Site 7  
 Diary".
- (b) Discuss the utility of a Drawings Register. 7

4. (a) Briefly explain how anti-termite treatment proves beneficial for a structure. 7  
(b) Write any four precautions to be taken while storing cement. 7
5. (a) Write some checks to be observed during supervision of structural steel work. 7  
(b) What is curing ? Describe any one method of curing. 7
6. (a) Discuss any two defects which are caused in timber due to natural forces. 7  
(b) Give the classification of house plumbing lines. 7
7. Write short notes on *any two* of the following :  $7 \times 2 = 14$   
(a) Defects in steel  
(b) Factors governing selection of pipes  
(c) Cracks in buildings
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