

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

**Term-End Examination**

**June, 2015**

00843

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

*Time : 2 hours*

*Maximum Marks : 70*

---

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

---

1. Select the most appropriate answer from the given alternatives in the following :  $7 \times 2 = 14$

(i) The procurement of materials is the concern of

- (a) Top level management
- (b) Middle level management
- (c) First-line management
- (d) Store-keeper

(ii) A drawing representing all the three dimensions of an object is

- (a) Plan
- (b) Elevation
- (c) Isometric view
- (d) Parametric view

- (iii) The drawing sheet size 594 mm × 841 mm refers to
- (a) A<sub>0</sub> sheet
  - (b) A<sub>1</sub> sheet
  - (c) A<sub>2</sub> sheet
  - (d) A<sub>3</sub> sheet
- (iv) Drawings that provide necessary information regarding plumbing for water supply and drawings of wiring for electrification etc. are called
- (a) Service drawings
  - (b) Fabrication drawings
  - (c) Detailed drawings
  - (d) GA drawings
- (v) Which defect in timber is caused by Fungi ?
- (a) Heart rot
  - (b) Wane
  - (c) Knots
  - (d) Coarse grain
- (vi) The \_\_\_\_\_ content determines the properties of steel.
- (a) Silicon
  - (b) Carbon
  - (c) Tungsten
  - (d) Sulphur

- (vii) The trap fitted in the waste pipe under the wash basin is called
- (a) pipe trap
  - (b) waste trap
  - (c) bottle trap
  - (d) gully trap
2. (a) What steps should a construction supervisor take to ensure the progress in the construction project ? 7
- (b) Describe the various types of drawings used in a construction project. 7
3. (a) What do you understand by Muster Roll ? Explain its need and draw typical format of a Muster Roll. 7
- (b) Describe the importance and content of a site diary. 7
4. (a) Discuss the defects in plumbing lines. 7
- (b) Describe the check-list for supervising a plastering and pointing work. 7
5. (a) Describe the methods of application of preservatives for preservation of timber. 7
- (b) Describe the different methods of jointing in PVC pipes. 7

6. (a) Describe, in brief, the common defects in flooring. 7
- (b) Discuss the sources of defects in brick masonry structures. 7
7. Write short notes on any *two* of the following:  $2 \times 7 = 14$
- (a) Common defects in piling work
- (b) Defects in timber due to insects
- (c) Phases of a construction project
- (d) New materials for strengthening of masonry walls
-