

**DIPLOMA IN CIVIL ENGINEERING
(DCLEVI / DELVI)**

Term-End Examination

June, 2016

00906

**BICEE-005 : CONSTRUCTION SUPERVISION AND
BUILDING MAINTENANCE**

Time : 2 hours

Maximum Marks : 70

Note : *Question no. 1 is compulsory. Attempt four more questions from the remaining questions no. 2 to 8. All questions carry equal marks.*

1. Choose the correct answer for the following questions from the four alternatives : $7 \times 2 = 14$
- (a) _____ means removal of excess water from the saturated soil.
- (i) Underwatering
 - (ii) Dewatering
 - (iii) Electro-osmosis
 - (iv) Piping
- (b) _____ is a thin coat of mortar over brick walls.
- (i) Paint
 - (ii) Distemper
 - (iii) Plaster
 - (iv) Laitance

- (c) Falling out of plaster from wall can occur due to _____ .
- (i) lack of adhesion
 - (ii) excessive moisture in background
 - (iii) rapid drying of plaster coats
 - (iv) Any of the above
- (d) _____ is the most common thinner used in oil paints.
- (i) Turpentine
 - (ii) Benzine
 - (iii) Naptha
 - (iv) Petrol
- (e) _____ is the process of drying out the timber to an appropriate moisture content.
- (i) Preservation
 - (ii) Decaying
 - (iii) Seasoning
 - (iv) Varnishing
- (f) The ease with which the concrete can be mixed, placed and compacted refers to _____ .
- (i) Durability
 - (ii) Workability
 - (iii) Creep
 - (iv) Elasticity

(g) Progress of work is recorded in

- (i) Nominal roll
- (ii) Muster roll
- (iii) Measurement book
- (iv) Quittance roll

2. (a) Discuss the role of construction supervisor, in different phases of a construction project. 7
- (b) Write a short note about the interpretation of specifications. 7
3. Explain in detail the basic difference in estimation during feasibility studies and for planning the Bill of Quantities. 14
4. What are the different site registers maintained in a construction site? Discuss in detail any two, with regard to their purpose. 14
5. Write short notes on the following : $2 \times 7 = 14$
- (a) Prestressed Concrete
 - (b) Underwater Concreting
6. Make a list of possible defects in timber. Also explain what do we mean by good timber? 14

7. Discuss in detail the steel manufacturing process. Give an account of simple field tests for structural steel. 14
8. What do you mean by preservation of timber ?
Make a list of various types of preservatives with an account of their advantages and disadvantages. 14
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