

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

00583 Term-End Examination

December, 2016

**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 in the following questions :

$7 \times 2 = 14$

- (a) _____ is a process of preparing the faces of stone surfaces to a form fit for construction.
- (i) Masonry
 - (ii) Dressing
 - (iii) Pitching
 - (iv) Polishing
- (b) Good plaster should have
- (i) insulation against sound
 - (ii) resistance against fire
 - (iii) resistance to weather effects
 - (iv) All the above

- (c) Before applying whitewash to a new wall surface, it needs to be
- (i) Cleaned
 - (ii) Painted
 - (iii) Heated
 - (iv) Cooled
- (d) _____ disconnects the sullage drain from the main drain.
- (i) Gully trap
 - (ii) Septic tank
 - (iii) Soil pipe
 - (iv) Interception chamber
- (e) Alternate wet and dry conditions of timber leads to
- (i) Decay
 - (ii) Seasoning
 - (iii) Drying
 - (iv) Scorching
- (f) _____ are the cracks or splits which extend from bark towards sap wood.
- (i) Heart shakes
 - (ii) Star shakes
 - (iii) Cup shakes
 - (iv) Ring shakes

- (g) _____ are used for getting the work done departmentally through daily rated labourers and workmen.
- (i) Muster roll
 - (ii) Measurement book
 - (iii) Nominal roll
 - (iv) Quittance roll
2. (a) Make a note on the qualifications and training requirements for a construction supervisor. 7
- (b) Write a short note about the interpretation of Bill of Quantities. 7
3. Write short notes on the significance of the following :
- (a) Purchase Orders 7
 - (b) Records of Payments 7
4. Discuss the significance of maintaining a site account for materials. Also mention how the register for cement consumption differs from the one for steel consumption. 14
5. Explain the various requirements to be checked while supervising the construction of a foundation. 14
6. Make a list of possible defects in plumbing lines and sewer lines. 14

7. Write short notes on the causes and effects of the following :

(a) Decay of Timber 7

(b) Corrosion of Steel 7

8. Discuss in detail the various causes of foundation failure. Also mention some remedial measures to control the same. 14
