

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

Term-End Examination

00836

June, 2015

**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 Q. 2 to Q. 8. Use of scientific calculator is permitted.*

1. Choose the correct answer in the following questions : $7 \times 2 = 14$
- (a) The overall co-ordinating person in a construction team is
- (i) The owner
 - (ii) The architect
 - (iii) The project manager
 - (iv) The contractor
- (b) The construction management is necessary for the purpose of
- (i) Co-ordination between different agencies
 - (ii) Economy in construction
 - (iii) Speed of construction
 - (iv) All of the above

- (c) Coating of a vitreous substance over a surface is known as
- (i) Glazing
 - (ii) Plastering
 - (iii) Painting
 - (iv) None of the above
- (d) Cement should be stored
- (i) In the open site on raised platform
 - (ii) In covered sheds on timber-raised platform
 - (iii) In containers
 - (iv) No special attention is required
- (e) Diagonal cracking in brick masonry indicates
- (i) Overloading (or) differential movement of the foundation
 - (ii) Poor quality of the brick work
 - (iii) Presence of sulphur in cement mortar
 - (iv) Poor quality of mortar
- (f) Safety in construction sites is to be strictly enforced because it is beneficial to
- (i) employers
 - (ii) employees
 - (iii) customers
 - (iv) All of the above

- (g) The following factor(s) affect the determination of structures :
- (i) Design deficiencies
 - (ii) Unusual stress conditions and poor quality of materials
 - (iii) Perfective construction
 - (iv) All of the above
2. Discuss the role of construction supervisor in respect to various phases of a construction project. 14
3. Write brief notes on the following : 2×7=14
- (a) Interpretation of Drawings
 - (b) Interpretation of Specifications
4. Differentiate between Raft and Pile foundations, with regard to their application in varying conditions. 14
5. Discuss the relevance and importance of Muster Rolls, Books and Bills as a part of construction engineering. 14
6. Describe the importance of site registers and material at site Accounts. 14

7. What is meant by underwater concreting ?
Discuss the problems associated with underwater
concreting. 14
8. Describe the systems of water supply and
plumbing in buildings. Explain their relative
merits and demerits. 14
-