

DCLEVI, DELVI
DIPLOMA ENGINEERING

Term-End Examination

December, 2012

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

Time : 2 hours

Maximum Marks : 70

Note : Answer any five questions and question no.1 is compulsory.

1. Select the correct answer from the given alternatives in the following multiple choice questions. 2x7=14
- (a) The most important stage in a construction project is :
- (i) Awarding of the contract
 - (ii) Design stage.
 - (iii) Construction stage
 - (iv) Initiation stage.
- (b) A control estimate is prepared for :
- (i) Getting financial assistance from banks
 - (ii) Making payments to the contractor.
 - (iii) Monitoring the project during construction.
 - (iv) None of these.

- (c) 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.
- (d) Safety in construction sites is to be strictly enforced because :
 - (i) It is beneficial to employers
 - (ii) Beneficial to employees
 - (iii) Beneficial to the customers
 - (iv) All of these.
- (e) Legislation in construction industry is necessary for :
 - (i) Fixing the terms of employment and working conditions.
 - (ii) Providing social security
 - (iii) Maintaining cordial relationship between the employers and employees
 - (iv) All of these
- (f) 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.

- (g) In steel structures, failure by fatigue may occur due to :
- (i) Sudden shock and impact loads.
 - (ii) Loose connections and fluctuating loads.
 - (iii) Improper rivets or bolts
 - (iv) Over loading.
2. Write a brief note on the following : 14
- (a) Interpretation of Drawings.
 - (b) Interpretation of Specifications.
3. What are the qualities necessary for an construction supervisor? Explain them briefly. 14
4. Discuss the steps involved in the estimation of construction project. 14
5. Discuss the importance of measurement books and muster rolls in the construction. 14
6. Bring out the importance of site registers and material at site Accounts. 14
7. What is meant by preservation of timber? Describe briefly the various methods adopted for the preservation of timber. 14

8. Write a brief note on *any four* of the following :

- (a) Defects in bath fitting **4x3.5=14**
 - (b) Defects in sewer lines
 - (c) Cracks in bricks.
 - (d) Classification of cracks.
 - (e) Corrosion in concrete
 - (f) under water concreting.
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