

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

Term-End Examination

00495

December, 2014

**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) Formulation of goals and policies of an organisation is primarily done by
- (a) Top level management
 - (b) Mid level management
 - (c) First line management
 - (d) Workers' union
- (ii) The drawing sheet size 297 mm \times 420 mm refers to
- (a) A0 sheet
 - (b) A1 sheet
 - (c) A2 sheet
 - (d) A3 sheet

- (iii) Aggregate, most of which is retained on _____ mm IS sieve is known as coarse aggregate.
- (a) 5.50
 - (b) 4.75
 - (c) 6.25
 - (d) 8.75
- (iv) Which defect in timber occurs in the seasoning process of wood ?
- (a) Bow
 - (b) Knots
 - (c) Dry rot
 - (d) Chip mark
- (v) When a revision of an existing drawing arrives at site, it is a good practice to stamp the earlier drawings as
- (a) Superseded
 - (b) Cancelled
 - (c) Rejected
 - (d) Abandoned
- (vi) In POL records, POL stands for
- (a) Petrol, oil and lubricants
 - (b) Petrol, oil and lime
 - (c) Payroll, officer and labour
 - (d) Persons, organisation and leader

- (vii) The work awarded to a contractor on the basis of measurement of items refers to
- (a) Lumpsum contract
 - (b) Piece rate contract
 - (c) Item rate contract
 - (d) Special contract
2. (a) Describe the responsibilities of a construction supervisor. 7
- (b) Why are specifications necessary ? What are the requirements of good specifications ? 7
3. (a) Explain the difference between a Muster Roll and an Attendance Register with respect to their use and maintenance. 7
- (b) Enlist different types of site registers. Explain the use and procedure of maintenance of any one type of site register. 7
4. (a) Describe the check-list for supervising a masonry construction. 7
- (b) Describe in brief the defects in timber caused by natural forces. 7
5. (a) Describe the qualities and requirements of a good preservative for timber. 7
- (b) Describe briefly the different types of coatings provided for steel. 7
6. (a) Discuss the various causes of dampness in buildings. 7
- (b) Discuss the surface treatments for water-proofing of buildings. 7

7. Write short notes on any *two* of the following : $2 \times 7 = 14$

- (a) Efflorescence in masonry walls
 - (b) Qualifications and training requirement of a construction supervisor
 - (c) Bill of Quantities
 - (d) Anti-termite treatment of masonry foundations
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