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**DIPLOMA IN CIVIL ENGINEERING
(DCLEG)**

Term-End Examination

December, 2012

**BCE-062 : CONSTRUCTION SUPERVISION
AND BUILDING MAINTENANCE**

Time : 2 hours

Maximum Marks : 70

Note : Question number 1 is compulsory. Answer any four questions out of the remaining questions.

1. Select the most appropriate answer from the given alternatives in questions (a) to (g) below : **7x2=14**
- (a) A 'Plan' is :
- (i) a view of structure as seen from the front
 - (ii) a view of a structure as seen from the side
 - (iii) a view of a structure as seen from above
 - (iv) None of the above
- (b) An agreement between client and contractor is a/an :
- (i) tender
 - (ii) elevation
 - (iii) contract
 - (iv) specifications

- (c) A drawing representing three dimensional view of an object/structure is known as :
- (i) Plan
 - (ii) Elevation
 - (iii) Sectional elevation
 - (iv) Isometric view
- (d) 841 mm × 1189 mm is a standard sheet of type :
- (i) A₀
 - (ii) A₁
 - (iii) A₂
 - (iv) A₃
- (e) Abbreviation BOQ means :
- (i) Build or Quit
 - (ii) Back of Quarter
 - (iii) Bill of Quantities
 - (iv) Best of Quality
- (f) Testing of ground soil :
- (i) should be done for important structures
 - (ii) should be conducted for all buildings
 - (iii) has no practical importance
 - (iv) none of the above
- (g) When a drawing is revised, the earlier one is marked as :
- (i) Latest
 - (ii) Not to be seen
 - (iii) Superseded
 - (iv) Cancelled

2. (a) Briefly explain the role of a construction supervisor in ensuring progress of a construction project. 7
- (b) Write the names of some important documents which a contractor's supervisor has to maintain at the site, and the purpose there of. 7
3. (a) Discuss 'Project Indirect Costs' briefly. 7
- (b) Describe various steps involved in the procedure leading to the issue of purchase orders. 7
4. (a) Show the use of a Bar Chart in displaying progress of a project. 7
- (b) What is a Log book for owner's equipment ? Describe briefly, with an example. 7
5. (a) Explain various precautions to be taken while placing reinforcement for reinforced concrete work. 7
- (b) Enlist various defects in timber. Briefly explain any one of them. 7
6. (a) Describe any two defects in sanitary fittings which occur during manufacturing stage. 7
- (b) Explain why Cast Iron pipes are used for drainage of sanitary installations ? 7

7. Write short notes on *any two* of the following :

- (a) Removal of clogging in pipes **2x7=14**
 - (b) Various types of cracks in buildings
 - (c) Repair of floors
 - (d) Control and removal of effervescence.
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