

**DIPLOMA IN CIVIL ENGINEERING
(DCLEG)**

Term-End Examination

December, 2013

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

Time : 2 hours

Maximum Marks : 70

Note : Question number 1 is compulsory. Attempt any four from the remaining questions.

1. (a) Write True or False(T/F) for the following statements. 7
- (i) curing of concrete is not desired in coastal areas.
 - (ii) PVC pipes can not sustain high pressures. That is why these should not be used for pumping water to over head tanks.
 - (iii) Good quality marble absorbs only a little quantity of water.
 - (iv) Reinforcement provides ductility to Reinforced cement concrete.
 - (v) There may be defects in timbers due to natural agents.
 - (vi) Cast iron is better suited than mild steel for drainage of water.
 - (vii) Log book for an equipment is an important document.

- (b) Match the following : 7
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|----------------------|------------------------|
| (i) Sap stain defect | (A) Steel |
| (ii) Corrosion | (B) Moisture in timber |
| (iii) Foundation | (C) Soil |
| (iv) Honey combing | (D) Concrete |
| (v) Cup shake | (E) Material record |
| (vi) Direct | (F) Cost |
| (vii) Document | (G) Timber |
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2. (a) What are the duties of a construction supervisor? Explain briefly. 7
- (b) Briefly describe a method to show the progress of a construction projects. 7
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3. (a) List out the documents/registers to be maintained in store and explain the procedure of daily receipts and issue of stores briefly. 7
- (b) Discuss the importance of curing of concrete briefly. 7
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4. (a) Do we do Anti termite treatment for building structure? If yes, briefly discuss a method in this respect. 7
- (b) What precautions can be taken to reduce the number of accidents at a construction site ? 7

5. (a) Differentiate between GI and PVC pipes and explain how they are graded or classified from use and quality point of view? 7
- (b) Compare direct and indirect costs of a construction project. 7
6. Explain, stepwise, **any two** of the following. 2x7=14
- (a) Laying of terrazo flooring
- (b) Tiling in bathroom walls
- (c) Repairs in concealed water piping.
7. Write short notes on **any two** of the following 2x7=14
- (a) Water proofing of ceiling slab
- (b) Repair of marble flooring
- (c) Training of Labour at site.
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