BCE-062

DIPLOMA IN CIVIL ENGINEERING
DCLE(G)
Term-End Examination

ㅁㅁ6 ㄱㅁ

June, 2014

BCE-062 : CONSTRUCTION SUPERVISION AND BUILDING MAINTENANCE

Time : 2 hours   *Maximum Marks : 70*

Note : *Question no. 1 is* **compulsory**. *Attempt any* **four** *out of the remaining questions.*

1. Match the following :   *14*

   (a) Drawings   (i) FWC

   (b) Fungi   (ii) Floor

   (c) Water closet   (iii) Progress

   (d) Bar chart   (iv) Timber

   (e) Terrazzo   (v) Single ply material

   (f) Size of Aggregate   (vi) Isometric view

   (g) Water-proofing   (vii) Steel

   (h) Curing   (viii) Concrete

   (i) Compaction by poker vibrator   (ix) ACC

   (j) Chloride ion   (x) IS Sieve

   (k) Site Diary   (xi) Bricks

   (l) Asbestos   (xii) Termite

   (m) Corrugated   (xiii) Supervisor

   (n) White Ants   (xiv) CGI

2. How do you carry out curing in the following ? Explain technical aspects for any two. *2×7=14*

(a) Concrete Slab

(b) Brick Masonry

(c) Cement Plaster

3. (a) Write name of a timber which resists White Ants well. Explain an anti-termite treatment method for foundation masonry. 7

(b) Enlist names of various types of defects in timber. Draw neat sketches to show any two of these defects. 7

4. List out the Dos & Don'ts in the following operation : $3\frac{1}{2}×4=14$

(a) While casting and compacting concrete in a column formwork.

(b) Laying of conduit pipes for wiring.

(c) Water-proofing of sunken floor of a bathroom above first floor.

(d) Repairing of marble floor.

5. (a) How do you evaluate and display the progress of a project with a Bar chart ? Explain with the help of a neat sketch. 7

(b) Explain the importance of proper drainage of water at a construction site. What precautions should be taken in this regard ? 7

6. List out the information we can get from a drawing through the following : $3\frac{1}{2} \times 4 = 14$

(a) Plan

(b) Elevation

(c) Notes and labels

(d) Isometric view

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

(a) Facade cladding

(b) PVC pipe jointing methods

(c) Item rate contract

(d) Defects in sanitary fittings

———