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BCE-062

DIPLOMA IN CIVIL ENGINEERING

DCLE(G)

Term-End Examination

June, 2019

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

Time : 2 Hours

Maximum Marks : 70

*Note : Question No. 1 is compulsory. Answer any
four questions from the balance questions.
All questions carry equal marks.*

1. Fill in the blanks after choosing from options
given after each sentence : $2 \times 7 = 14$

(a) Plumb Bob is used to check the of
the wall while spirit level is used for
checking (slope, verticality, angle)

(A-11) P. T. O.

- (b) Vicat apparatus is used to determine
of cement and normal size of needle used
is

(10 mm, consistency, strength, 20 mm)

- (c) When a building is viewed from top it is
called and when viewed from side or
front it is called

(3D view, elevation, plan, section)

- (d) The two axes of Bar chart are and
..... (Task, time, velocity, energy)

- (e) Plan and Elevation are views while
isometric is view.

(one-dimensional, two-dimensional, three-
dimensional)

- (f) Bricks should be soaked in water for
..... before use and the gap between two
bricks for mortar should be of

(24 hours, 10 days, 10 mm, 10 cm)

- (g) Two constituents of concrete are and
..... (cement, brick, aggregate, glass)

2. Enlist any *four* types of flooring and explain the laying of JPC flooring. 6+8=14
3. What are various reasons of corrosion in steel ? Explain the remedial measures to avoid corrosion. 6+8=14
4. Explain any *two* methods of making a building waterproof. How do you ensure to avoid dampness in walls and seepages in underground structures ? Write briefly. 6+8=14
5. (a) Explain the precautions to be taken while fixing sanitary fittings and laying plumbing lines. 6
- (b) How is the slope of the floor checked ? Write methodology of repairing the floor steps briefly. 8
6. (a) List out various items required for form work shuttering. Explain their use and function. 6
- (b) Write any *five* reasons for hazards in staging and explain them briefly. 8

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

$$3\frac{1}{2} \times 4 = 14$$

- (a) Top level management
- (b) Types of cements and their uses
- (c) Responsibilities of construction supervisor
- (d) Precautions while working at heights
- (e) Safety equipments and their uses