No. of Printed Pages : 3

BCE-062

DIPLOMA IN CIVIL ENGINEERING
DCLE(G)

Term-End Examination

00682

December, 2017

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.*

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1. Fill in the blanks in the following parts by using the terms taken from the given list : *7×2=14*

men, material, elevation, plan, sq m, kg/m, heart rot, knot, 150 mm, sq m, reduced level, benchmark, 115 mm, 230 mm

(a) The side view of an object is called _____ while view from the top is _____ .

(b) In a standard brick the dimensions of stretcher side is _____ and header side is _____ .

(c) In survey, the point above or below the datum lines is known as _____ while the fixed point of known reduced level is known as _____ .

(d) The unit measurement of formwork or shuttering is in _____ and that of reinforcement is in _____ .

(e) Surface dressing of natural ground should not exceed _____ depth and is measured in _____ .

(f) The two defects in timber are _____ and _____ .

(g) The two major resources of construction are _____ and _____ .

2. (a) Explain the difference between PCC and RCC and describe their use in construction.

(b) How would you check the quality of cement before using it at site for plastering ? Discuss briefly. *7+7=14*

3. List out any four site documents which a site supervisor should maintain and monitor. Explain their purposes, writing two sentences for each document. *2×7=14*

4. Differentiate between any ***four*** of the terms in the following parts : $4 \times 3\frac{1}{2} = 14$

(a) A3 and A4 sheets

(b) Service drawing and GA drawing

(c) Bottle trap and Gully trap

(d) Potable water and Saline water

(e) 53 grade and 43 grade of cement

(f) Brick-work and Block work

(g) Formwork and Shuttering

5. Why is slump test conducted ? Explain with the help of a neat diagram, the method to conduct this test. $4+10=14$

6. (a) Explain any two types of commonly used flooring.

(b) Briefly discuss how quality and quantity of mixing water may affect quality of concrete.

$7+7=14$

7. Write short notes on the following : $4 \times 3\frac{1}{2} = 14$

(a) Method of Plastering above 12 mm thickness

(b) Personal Protective Equipment (PPE)

(c) Rules for Fitting Doors and Windows

(d) Manholes in Pipelines