

**DIPLOMA IN CIVIL ENGINEERING DCLE(G) /
DCLEVI**

Term-End Examination

00405

December, 2014

BCE-043 : CONSTRUCTION TECHNOLOGY – II

Time : 2 hours

Maximum Marks : 70

Note : *Question no. 1 is compulsory. Answer any four questions from the remaining part. All questions carry equal marks.*

1. Choose the correct alternative in questions

(a) to (g).

$7 \times 2 = 14$

(a) Flakiness Index is a test for

(i) fine aggregate

(ii) coarse aggregate

(iii) cement

(iv) bricks

(b) For planning of annual maintenance, a financial year is divided into four quarters. April to June is the

(i) first quarter

(ii) second quarter

(iii) third quarter

(iv) fourth quarter

- (c) Godowns and warehouses represent
- (i) low fire load
 - (ii) medium fire load
 - (iii) high fire load
 - (iv) None of these
- (d) Which of the following sections are also called joists or beams ?
- (i) Angle sections
 - (ii) I-sections
 - (iii) Plates
 - (iv) Corrugated sheets
- (e) Which of the following is **not** an acoustical defect ?
- (i) Echo
 - (ii) Frequency
 - (iii) Reverberation
 - (iv) Dead spots
- (f) Plenum process is an artificial ventilation system.
- (i) True
 - (ii) False
- (g) Output of primary crusher is fed to secondary crusher.
- (i) True
 - (ii) False

2. (a) What are the aims of supervision ? Discuss briefly. 7
- (b) What are the steps for planning of an annual maintenance programme ? Explain briefly. 7
3. Briefly state characteristic requirements of an ideal fire resistant material. Describe the use of a fire resistant material in a building. 14
4. Describe the steel sections commonly used as 14
- (i) Compression members
- (ii) Tension members
- (iii) Flexural members
5. (a) Explain any two acoustical defects in a building with diagram (if necessary). 7
- (b) Describe briefly the requirements of a good ventilation system of a building. 7
6. (a) Discuss any one ground improvement technique for foundation. 7
- (b) Explain various special bricks. 7
7. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Precast Framed Construction
- (b) Safety Measures during Construction
- (c) Jaw Crusher
- (d) Concrete Mixers
- (e) Natural Ventilation System
- (f) Welded Connection
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