



C14-C-603

4718

**BOARD DIPLOMA EXAMINATION, (C-14)**

**MARCH/APRIL—2017**

**DCE—SIXTH SEMESTER EXAMINATION**

**CONSTRUCTION TECHNOLOGY AND VALUATION**

*Time : 3 hours ]*

[ *Total Marks : 80* ]

**PART—A**

$3 \times 10 = 30$

**Instructions :** (1) Answer **all** questions.

- (2) Each question carries **three** marks.
- (3) Answers should be brief and straight to the point and shall not exceed **five** simple sentences.

1. Differentiate between normal concrete and high-strength concrete.
2. Define the following :  
*(a) Workability*  
*(b) Water-cement ratio*  $1\frac{1}{2} + 1\frac{1}{2}$
3. State the factors affecting the strength of concrete.
4. State the principle of prestressing.
5. state the requirements of formwork.
6. State the uses of tractor in construction industry.
7. State the requirements of good lighting.
8. State the causes of earthquakes.

**9.** Define the terms : \*

- (a) Scrap value
- (b) Sinking fund

**10.** Briefly explain the term 'depreciation'.

### **PART—B**

$$10 \times 5 = 50$$

**Instructions :** (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

**11.** List different types of admixtures to be added to concrete and their functions.

**12.** Explain (a) light-weight concrete and (b) fiber reinforced concrete.

$$5+5$$

**13.** State the advantages and disadvantages of prestressed concrete.

**14.** Explain merits and demerits of steel formwork over timber formwork.

**15.** Explain about various hauling equipments.

**16.** (a) State the objectives of earthing.

- (b) Explain various methods of earthing.

**17.** Explain seismic construction with stone masonry as per codal provisions.

**18.** Name various methods of valuation of buildings and explain any two in detail.

$$3+7$$

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