### 7228

#### **BOARD DIPLOMA EXAMINATION, (C-20)**

#### JUNE/JULY-2022

#### **DCE - THIRD SEMESTER EXAMINATION**

CONSTRUCTION MATERIALS

*Time* : 3 hours ]

#### PART—A

3×10=30

[ Total Marks : 80

- **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.** State physical classification of rocks with one example for each.
  - **2.** List any three characteristics of good bricks.
  - **3.** State three functions of sand.
  - **4.** List any three tests on cement.
  - 5. What is mortar? State any two types of mortars.
  - 6. State any three advantages of machine mixing of concrete.
  - 7. State any three uses of varnishes.
  - 8. State six constituents of paint.
  - **9.** State any three characteristics of good timber.
  - **10.** Write any three advantages of plastics.

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PART-B

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

- (2) Each question carries **eight** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **11.** (a) Explain any eight characteristics of good building stones.

#### (OR)

- (b) Explain four properties and four uses of granite.
- 12. (a) Explain different stages involved in preparation of bricks.

#### (OR)

- (b) Explain water absorption and compressive strength tests on bricks.
- **13.** (a) State characteristics of good sand.

#### (OR)

- (b) State and explain classification of sand based on availability.
- **14.** (a) Explain consistency test on cement.

#### (OR)

- (b) Draw legibly a labeled flow diagram of manufacturing of cement by dry process.
- **15.** (a) Explain any three methods of curing of concrete suitable for different surfaces.

#### (OR)

(b) Explain the preparation of cement concrete by machine mixing.

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**Instructions :** (1) Answer the following question.

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- (2) The question carries **ten** marks.
- (3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

16. Explain ready mix concrete and state its advantages.

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