



c09-c-306

**3222**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**OCT/NOV—2016**

**DCE—THIRD SEMESTER EXAMINATION**

**CONSTRUCTION MATERIALS**

*Time : 3 hours ]*

*[ Total Marks : 80*

**PART—A**

3×10=30

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

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

(3) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

**1.** State one property and one use for each of the following stones :

(a) Marble

(b) Cuddapah slabs

(c) Shahabad stones

**2.** Write the standard size of brick as per specifications.

**3.** Write a short note on bulking of sand.

**4.** Define the terms of the following :

(a) Initial setting time of cement

(b) Final setting time of cement

**5.** State the usual proportions of cement mortar for any three civil engineering works.

**6.** State the difference between plain cement concrete and reinforced cement concrete.

**7.** State three uses of Enamel.

- \* 8. List the uses of varnish.
- 9. List three uses of veneers.
- 10. State four characteristics of good timber.

**PART—B**

10×5=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. (a) Explain the physical classification of rocks and give an example for each.  
(b) State any five characteristics of good building stone.
- 12. Explain briefly about the following wall tiles :  
(a) Ceramic tiles  
(b) Vitrified tiles
- 13. What are 'Fly Ash Bricks'? State any five advantages of using fly ash bricks.
- 14. Write short notes on the following :  
(a) Quick setting cement  
(b) White cement
- 15. Explain ready mix concrete. Write any four advantages of it.
- 16. Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
- \* 17. (a) State and explain the ingredients of a paint.  
(b) Write the uses of paint.
- 18. (a) State five uses of gypsum.  
(b) State five uses of asbestos

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