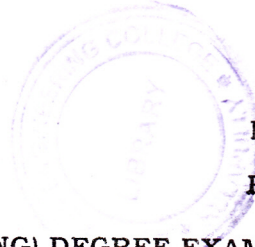


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Name.....

Reg.No .....

**THIRD SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, DECEMBER 2012**

**CE 09 304/PTCE 09 303 - BUILDING TECHNOLOGY 1  
(2009 Admissions)**

**Time : Three Hours**

**Maximum : 70 Marks**

*Answer all questions  
Draw neat sketches wherever necessary*

**PART A**

1. Write a short note on pointing.
2. List out the purpose of curing.
3. What is meant by site plan?
4. Write a short note on quarrying of stones.
5. Differentiate between shallow and deep foundation.

(5 x 2 = 10)

**PART B**

*Answer any four questions*

6. Write a short note on functional planning of building.
7. Explain seasoning of timber
8. Write short notes on cavity walls and partition walls.
9. Explain the functions and requirements of foundations.
10. Explain alkali-aggregate reaction
11. List out the BIS specification for different types of bricks and tiles ( 4 x 5 = 20 Marks)

**PART C**

12. (a) Write short notes on (i) Glass (ii) structural steel  
**OR**  
(b) What is meant by OPC?. Explain how it is manufactured. Also list out the types of cement available in the market

- 13 (a) Describe in detail BIS method of mix proportioning.

**OR**

- (b) Write short notes on  
(i) Admixtures  
(ii) Compaction of concrete

- 14 (a) Write short notes on (i) lintels and arches (ii) plastering

**OR**

- (b) Explain with the help of sketches different bonds in brick work

- 15 (a) Describe briefly about functional requirement of residential buildings as per Kerala building rules

**OR**

- (b) Write short notes on  
(i) National Building Code  
(ii) Sketch plans and working drawings

[ 4 x 10 = 40 Marks ]

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