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**Question Paper Code : 27652**

**B.Arch. DEGREE EXAMINATION, DECEMBER 2015/JANUARY 2016**

**First Semester**

**AR 6103 – BUILDING MATERIALS – I**

**(Regulation - 2013)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. What are the types of soils ?
2. Name any two types of stabilizers.
3. Brief the principles of soil stabilisation.
4. Brief on Slaking.
5. Sketch the anatomy of bamboo.
6. Name any two applications of straw bales.
7. What is stone veneering ?
8. Brief on quarrying of stones.
9. What is seasoning ?
10. Brief on the characteristics of stones.

**PART – B (5 × 16 = 80 Marks)**

11. (a) Explain the following :
- (i) Classification of rocks
  - (ii) Preservation of stones

**OR**

- (b) Stone is a Rural Building Material – Justify this statement with examples.

12. (a) Discuss the application of straw bales in buildings.

**OR**

- (b) Discuss the applications and uses of cane, coir and coconut in rural houses.

13. (a) Discuss the various types of mud wall construction and their surface protection.

**OR**

- (b) Discuss the fundamentals of soil science.

14. (a) Explain the classification of lime and compare fat lime and hydraulic lime.

**OR**

- (b) Explain the following :
- (i) Testing and storage of Lime
  - (ii) Lime putty
  - (iii) Precautions in handling and uses of lime

15. (a) Discuss the properties, characteristics and uses of Bamboo and methods of Preservation and treatment.

**OR**

- (b) Explain the following :
- (i) Dressing of stones
  - (ii) Testing of stones