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Code No.: 21013 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. II Year (Civil Engg.) I-Semester Supplementary Examinations, May/June-2017

Building Materials and Construction

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 X 2=20 Marks)

1. What is meant by quarrying of stones?
2. What are the characteristics of good bricks?
3. Write various Raw materials for manufacture of Cement.
4. Mention the characteristics of Coarse Aggregates.
5. Write in brief different types of Mortars.
6. Mention briefly the recycled materials used in the construction.
7. Explain the preservation of wood.
8. Distinguish between a Paint & Varnish.
9. What are the requirements of good Form Work?
10. Mention the characteristics of good Flooring.

Part-B (5 × 10 = 50 Marks)
(All bits carry equal marks)

11. a) Describe in detail the geological classification of rocks.
b) Describe various methods involved in burning of bricks.
12. a) Explain the dry process method for manufacture of cement.
b) What are Blended Cements? Write various types and uses of Blended Cements.
13. a) Explain in detail various types of Mortars and their uses.
b) Describe the Workability Test of Concrete.
14. a) Draw a neat diagram of the structure (cross section) of a exogenous tree and write the functions of each part.
b) Describe in detail various defects which occur in Timber.
15. a) Discuss in detail about Ceramic and Mosaic Tiles.
b) What do you mean by Pointing? Write in detail the types of Pointing.
16. a) Describe in detail the classification of Bricks.
b) Explain in detail different Tests to be conducted on Coarse Aggregates.
17. Write short notes on any *two* of the following:
 - a) Water-Cement Ratio
 - b) Ply wood and its uses
 - c) Scaffolding and its types.
