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Roll No. ....

B.Tech. VI Sem.

**TU-181A**

**B.Tech. Examination, May 2014**

**Ag. Engg.**

**Building Material Structural Design**

**[BT- 630 (N)]**

*Time : Three Hours ]*

*[Maximum Marks : 100*

**Note:** Attempt any **five** questions. All questions carry equal marks.

1. What is the use of stone as building materials? Explain in detail different tests for stone.

20

2. Define concrete. Discuss in detail about various types of concrete and various properties of Cement Concrete.

20

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3. What do you mean by brick? Classify the different types of bricks and their uses. 20
4. Write short notes on : 20
- (a) Dry Rot
  - (b) Wet Rot
  - (c) Hard Wood
  - (d) Soft Wood
  - (e) Differentiate between timber and wood.
5. Define Cement. Discuss the various types of Cement. Draw a flow diagram for manufacturing of cement by dry process. 20
6. Write in brief about 20(10+10)
- (a) Timber and various methods of conversion of Timber.

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- (b) Explain the various defects of timber after feeling of tree.
7. What do you mean by a roof? Explain in detail about various type of roofs. 20
8. While planning a building, What should be the main factors, tests, facilities that must be considered before construction. 20
9. Define seasoning of timber, its uses and discuss in detail about various methods of seasoning of timber. 20
10. What are site exploration and purposes of foundations? Explain various types of piles used in foundation. 20

