



Reg. No. :

Name :

**Combined First and Second Semester B.Tech. Degree
Examination, April 2014
(2013 Scheme)
13.106 : BUILDING TECHNOLOGY (C)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. Discuss the geological classification of rocks
2. What are the qualities of good building bricks ?
3. What are the methods for improving the bearing capacity of soils ?
4. Distinguish between corbels and cornice.
5. What are the requirements of a good stairs ?

PART – B

Answer **one full** question from **each** Module. **Each** question carries **20** marks.

Module – I

6. a) Briefly discuss the requirements of good building stones. Explain the principles of impact and abrasion tests for stone samples.
b) What are the objectives of seasoning timber ? Explain the method of natural seasoning and compare its advantages and disadvantages.

OR

7. a) What are the different types of cements used in engineering construction ?
Mention their uses.
b) Explain any one method of manufacture of lime for construction uses.

**Module – II**

8. a) Briefly explain the guiding factors in the selection of site for a building.
b) Explain the types of pile foundations based on the method of load transfer.

OR

9. Explain the field procedure for conducting a plate load test. Indicate how the Safe Bearing Capacity of soil is estimated.

Module – III

10. a) Distinguish between Rubble and Ashlar masonry. Give the details of various types of rubble masonry.
b) Explain the salient features of English bond. Sketch the alternate courses of $1\frac{1}{2}$ brickwork in English bond.

OR

11. How are arches classified ? Briefly discuss the various types of arches with sketches.

Module – IV

12. a) What are the factors considered for the selection of flooring materials ? Mention the characteristics of commonly used flooring materials.
b) What are the factors governing the location of doors in a room ? Sketch and indicate the parts of a panelled door.

OR

13. a) With the help of sketches explain the common geometric layouts of stairs.
b) Explain the process of painting :
i) New wood work and
ii) Cement plastered surface.
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