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A – 4127

Reg. No. :

Name :

**Combined First and Second Semester B.Tech. Degree
Examination, December 2016
(2013 Scheme)**

13.106 : BUILDING TECHNOLOGY (C)

Time : 3 Hours

Max. Marks : 100

PART – A

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

1. What are the methods for quarrying stones ?
2. Distinguish between fat lime and hydraulic lime.
3. Explain the types of piles according to the method of load transfer.
4. What are cavity walls ? State their advantages.
5. What are the objectives of plastering ?

PART – B

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

Module – I

6. What are the various types of defects in timber ? Explain.

OR

7. a) What are the types and functions of reinforcing steel in concrete ? Explain the various market forms of structural steel.
b) What are geotextiles ? Give any two examples for their use in geotechnical engineering.

P.T.O.



Module – II

8. a) Explain the various methods of timbering of foundation trenches.
- b) With the help of sketches explain the following types of foundations :
- i) Combined footing and
 - ii) Raft foundation.

OR

9. Define bearing capacity of soil. Explain the field test to estimate Safe Bearing Capacity of soil. Suggest methods to improve bearing capacity.

Module – III

10. a) Compare the English bond with Flemish Bond. Sketch the plan and elevation of 1½ brick Flemish bond brick masonry.
- b) Compare stone masonry with brick masonry. Explain the different types of Ashlar masonry.

OR

11. Explain with neat sketches the different types of scaffolding.

Module – IV

12. a) Compare the characteristics and discuss the suitability of flat and sloping roofs. Sketch the details of a collar roof.
- b) Give the details of a battened, ledged and braced door.

OR

13. Write short notes on :
- a) Dog legged stair
 - b) Pointing
 - c) Damp Proof Course
 - d) Termite proofing.

