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D – 5351

Reg. No. :

Name :

**Combined First and Second Semester B.Tech. Degree
Examination, March 2018
(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 factors to be considered during selection of a construction material ?
2. List the various qualities of good building stones.
3. What is meant by safe bearing capacity of soil ?
4. Differentiate between stone and brick masonry.
5. List different types of floor finishing materials. **(5×4=20 Marks)**

PART – B

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

Module – I

6. a) What is meant by decay of timber ? What are its causes ? **10**
- b) What is meant by seasoning of timber ? Explain various methods. **10**

OR

7. a) What are the ingredients of cement ? Discuss the desirable proportion and their functions. **10**
- b) What are the different types of cements ? Explain their features and uses. **10**

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Module – II

- 8. a) Discuss the factors to be considered while selecting a site for a building. 10
- b) Explain with a neat sketch, various components of a building. 10

OR

- 9. a) Explain the process of setting out of a building. 10
- b) What are pile foundations and where do we adopt them ? Explain its different forms. 10

Module – III

- 10. a) With neat sketches, explain the differences between English bond and Flemish bond. 10
- b) What are the advantages and disadvantages of cavity walls ? 10

OR

- 11. a) What is meant by under-pinning ? Explain its various methods. 15
- b) Write a short note on scaffoldings. 5

Module – IV

- 12. a) What are the various roof covering materials used in building construction ? Discuss the advantages of each material. 10
- b) Explain in detail the different materials used for making doors and compare their features. 10

OR

- 13. a) How are the different surfaces prepared for painting ? 10
 - b) What are the relative advantages and disadvantages of flat roof and sloping roof ? 10
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