

Total No. of printed pages = 3

CT-405/BC&M/4th Sem/2013/M

**BUILDING CONSTRUCTION AND
MAINTENANCE**

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer question No.6 and any *three* from the rest.

1. (a) What is a foundation ? 5
- (b) How can they be classified ? Explain. 5
- (c) What are the basic function of a foundation ? 10
2. In what circumstances stone masonry construction is superior to brick masonry and under what circumstances brick masonry is superior to stone masonry ? 20

[Turn over

3. (i) What rules should be followed while deciding the location of doors and windows ?
10
- (ii) What are the different dimensions of doors and windows that are generally adopted in a building ?
10
4. (a) How can roofs be classified ? What factors are required in selecting a roof covering for a building ?
10
- (b) What are the causes of dampness and what are the methods and materials used for damp proofing ?
10
5. (a) What are the requirements of a good staircase ?
4
- (b) What are the types of stairs ? Show any three of them with diagram.
6
- (c) What is masonry ? How can they be classified ? Explain any two of them.
10

6. Write short notes on any *five* : $5 \times 2 = 10$

(i) Types of arches

(ii) Types of lintels.

(iii) Scaffolding

(iv) Bonds in brick masonry

(v) Timber flooring

(vi) Formwork.