

Total number of printed pages-4

53 (CE 304) BMAC

2014

BUILDING MATERIALS AND CONSTRUCTION

Paper : CE 304

Full Marks : 100

Time : Three hours

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

Answer Q. 1 and any four from the rest.

1. (a) What is the basic function of base in a paint ?
- (b) What are the two types of vehicles generally used in oil paints ?
- (c) What is the cause of star shake ?
- (d) What is charring and tarrying ?
- (e) What is cast iron and wrought iron ?
- (f) At what situation strap footing is provided ?

Contd.

- (g) When pile foundation is adopted ?
- (h) What are stiffener and cross joists ?
- (i) What are side yokes and end yokes ?
- (j) What is stripping time ? What is the stripping time of wall column and vertical sides of beams. 20
2. (a) What are the ingredients of cement ? Explain the function of each ingredient. 10
- (b) What is combined footing ? Discuss the various types of combined footing. 10
3. (a) Name the *two* parts of door and what are its functions. In what way doors and windows are located in a room ? 10
- (b) What is meant by the terms ceramics and clay ? Discuss briefly the characteristic of a good tile. 10
4. (a) What are the ingredients of a varnish ? Discuss briefly the functions of each. 10

- (b) Define masonry. What are the various types of masonry work? Write the rules for bonding. 10
5. (a) What are adhesives and how they are classified? Explain. 8
- (b) What are the requirements of a good stair? 5
- (c) What do you understand by half turn stair? What are its types? Discuss. 7
6. (a) What is meant by disease of timber? What are its causes and preventive measures? 10
- (b) What is pitched roof? Enlist the various types of pitched roof. 5
- (c) What are the requirements of a good roof? 5
7. Write short notes on : 20
- (i) Rubber
- (ii) Heat insulating material

- (iii) Structure of timber
- (iv) Seasoning of timber
- (v) Scaffolding.

