

Total number of printed pages-2

53 (CE 304) BMCN

2021

**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 all questions.*

1. Write in details on the following topics :  
(Draw the figures if required)  $6 \times 5 = 30$ 
  - (a) Bond in brick
  - (b) Effects and remedies of dampness in constructed wall
  - (c) Lime cycle
  - (d) Source of lime and its classification
  - (e) Scaffolding.

Contd.

2. Explain in brief, the essential requirements of floor. Also enumerate various factors that affect the selection of floor a finish. 10
3. Draw plan and section of a typical dog-legged stair of RCC. 10
4. Classify the different types of foundation used in the practice. Explain in details about *any one* of them. 5+10=15
5. Explain different types of loads on the structure. 15
6. Write down and explain the different factors which affects the life of varnish. 10
7. What are the different constituents of cement? Explain with their percentage and importance. 10

