

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No .....

**CE-5004 (CBGS)****B.E. V Semester**

Examination, December 2017

**Choice Based Grading System (CBGS)****Construction Material and Techniques***Time : Three Hours**Maximum Marks : 70*

- Note:** i) Total No. of questions are eight, Attempt any five questions.  
 ii) All questions carry equal marks.  
 iii) Missing suitable data, may be assume.

1. a) Write down the characteristics of good building stone. Explain any two methods in detail, of quarrying of stone. 7  
 b) What are the defects in timber? Explain with neat sketch and mention their causes. 7
2. a) Write down the applications of fly ash in preparation of different types of building materials. 7  
 b) What do you understand by non-erodible mud plinth? Explain in detail the construction method. 7
3. a) Explain in detail various new advance flooring materials with their uses. 7  
 b) Write detail notes on utilization of agricultural and industrial waste in preparation of new building material. 7

CE-5004 (CBGS)

132

PTO

[2]

4. a) What are the interior materials use for plumbing and sanitation work? 7  
 b) What do you understand by encasement window? Sketch the details. 7
5. a) Describe various techniques used for repair of foundation in detail. 7  
 b) What are the various methods used for dewatering foundation excavations? Explain in detail any one of them. 7
6. a) Explain in detail with neat sketch any one of the following:  
     i) Well foundation 7  
     ii) Steel grillage foundation 7  
 b) Explain various types of bonds used in brick masonry with neat sketch. 7
7. a) What do you understand by dog-legged stair-case? Explain with neat sketch showing plan and elevation. 7  
 b) What are the difference between plastering and pointing? Explain with neat sketch the king post roof truss. 7
8. a) Describe various types of floor, explain any two with neat sketch. 7  
 b) Write short notes on any two of the following: 7  
     i) Fire fighting arrangement in building  
     ii) Water proofing techniques  
     iii) Low cast house materials  
     iv) Air conditioning system in building

\*\*\*\*\*

CE-5004 (CBGS)

133

HTTP://WWW.RGPVONLINE.COM