

CE- 404  
B.E. IV Semester  
Examination, June 2015  
Construction Materials And Techniques  
Time : Three Hours      www.rgpvonline.in      Maximum Marks : 70

- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
ii) All part of each questions are to be attempted at one place.  
if i) AH questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part G (Max, 100 words) carry 3 marks, part D (Max»400 words) carry 7 Marks.  
iv) Except numerical Derivation, Design and Drawing etc, [www.rgpvonline.in](http://www.rgpvonline.in)

UNIT-I

1. a) What is quarrying of stones?
- b) Discuss "Dressing of stones".
- c) Describe engineering properties and uses of timber.
- d) Describe the different varieties of stones. Also mention salient characteristics.

OR

Enumerate various tests performed to assess the quality of stone. Explain any two in brief

UNIT-II

- 2 a) What is Damp proof course?
- b) Why fly ash is used in mortars?
- c) What materials are used for providing DPC,?
- d) Explain the building materials produced by industrial and agricultural waste.

OR

What advance-materials: are used for flooring now-a days. Explain in details,

UNIT- III

3. a) 'What do. you understand 'by bearing capacity of soil?.
- b) How the bearing capacity of poor soil can be improved?
- c) Why Black cotton soil is taken as problematic?
- d) Describe well foundation and what are its causes of failure?

OR

What are the different, types of foundations? What are the causes of failure of foundations?

UNIT-IV

- 4 a) What are the brick cavity walls?
- b) Explain repair techniques for masonry walls.
- c) What are various-types of stair cases? Draw, neat sketches.

OR

Sketch and describe briefly the following giving foe merits of each:.

- i) English bond
- ii) Flemish-bond

- 5, a) What are the. advantages of sloping-roof?
- b) Discuss foe concept of low cost focusing
- c) What is ferro cement ? Discuss its use in Civil Engineering works
- d) What services are required in a building? Explain in details,

OR

With the help of neat sketch, Explain about the constructional features of Jack-Arch flooring.'