

(Following Paper ID and Numbers to be filled in your Answer books)

Paper ID:

--	--	--	--	--	--

Roll No:

--	--	--	--	--	--	--	--	--	--

B.Tech

EXAMINATION, 2015-16

Subject: Building Materials & Construction

Code: NCE302

[Time: 3 Hours]

[Total Marks: 100]

SECTION-A

Q.1 Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2 x 10=20)

- (a) a. Moulding is the main property of.....What are the constituent materials & properties of cement concrete? Discuss the methods of curing of cement concrete.
- (b) Concrete behaves asmass under load.
- (c) a. What are the fundamental requirements of doors and windows?
- (d) a. What is the purpose of using heat treatment process?
- (e) a. What is low heat cement?
- (f) a. What are the compositions of materials for brick?
- (g) a. What are the properties of glass?
- (h) a. Define –
 - i. Plastering & pointing
 - ii. Distempering.
- (i) a. What is efflorescence?
- (j) a. What is natural ventilation?

SECTION-B

Note: Attempt any 5 questions from this section. (10 x 5=50)

- Q.2 a. Write about the defects of timber.
- Q.3 a. Write about the defects of timber.
- Q.4 a. Describe the classification of different types of building as per building code (NBC).
- Q.5 a. Explain various processes of damp protection.
- Q.6 a. Explain with neat sketches the different bonds in brick masonry?
- Q.7 a. Write short note on –
 - i. Pozzolona
 - ii. Plaster of Paris

iii. Tiles

iv. Bitumen

v. Aluminium

- Q.8 a. Define a cavity wall. Explain with the help of sketches, general feature of a cavity wall.
- Q.9 a. Discuss in detail the staircase construction.

SECTION-C

Note: Attempt any 2 questions from this section. (15 x 2=30)

Q.10

- Q.11 a. Write about the defects of timber.

Q.12