

NCE-302

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(Following Paper ID and Roll No. to be fille	d in	you	r Ans	swer	Boo	k)		
PAPER ID: 100312								
Roll No.								
B. Tech.		ni			733		men	
(SEM. III) (ODD SEM.)	T	HE	OR	Y				

(SEM. III) (ODD SEM.) THEORY EXAMINATION, 2014-15

BUILDING MATERIAL & CONSTRUCTION

Time: 3 Hours]

[Total Marks: 100

Note:

- (1) Attempt all questions.
- (2) All questions carry equal marks.

1. Attempt any four parts:

5x4=20

- (a) Explain different characteristics of stones and their method of testing?
- (b) What are the constituent materials & properties of cement concrete. Also discuss the methods of curing of cement concrete
- (c) What do you mean by seasoning of Timber? What are its advantages and fundamental Engineering Properties of Timber?
- (d) Discuss the manufacturing process of Clay Bricks and their uses?
- (e) Write down the process of manufacturing of cement and their uses.
- (f) Discuss the problem of lime bursting and efflorescence in bricks?

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Attempt any four parts: 2. 5x4 = 20Discuss the properties, ingredients & uses of Glass used in building construction? Explain constituents, desirable properties & types of Paints. Write note on the following: (c) Thermosetting and thermoplastic Common terms used in brick masonry Explain the properties & characteristic of (d) reinforcing steel. Discuss the properties & uses of the following (e) Aluminum Cast iron Write short note on the following: (f) Types of sound insulating material (b) Types of thermal insulating material 3. Attempt any two parts: 10x2 = 20Discuss in detail the following:

- Staircase construction (neat sketch)
- (b) Cavity wall and hollow block
- (b) Explain the classification of Stone Masonry and Bonds used in Brick Masonry?
- (c) What are the different types of Ground Floor? Describe them briefly.

4. Attempt any two parts:

10x2 = 20

- Discuss different types of Roofs? Write a short note on Queen Post Truss with neat sketch.
- What is the function of Linters and its classification? (b)
- (c) Explain the different type of Doors and Windows? 100312] 2 [Contd...

5. Attempt any two parts:

- 10x2=20
- (a) Define the term Ventilation? Discuss the factors which affect Ventilation? Which point should be kept in mind while planning ventilation in public building?
- (b) Explain the following:
 - (a) Mechanicals Lifts and Escalators
 - (b) Acoustics
 - (c) Water supply system and Fixtures
- (c) Explain the following:
 - (a) Plastering and pointing
 - (b) Drains.