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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



III SEMESTER B.TECH (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: BUILDING SCIENCE AND TECHNOLOGY [CIE- 2103]

REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.

1A.	Name properties of good mortar.				
1B.	With the help of a neat sketch explain features of Flemish bond				
1C.	Explain various terms of Arch masonry with the help of figure.				
2A.	Explain various classifications of bricks.				
2B.	Explain in details i) Fat lime ii) Hydraulic lime iii) Poor lime				
2C.	Explain with shoring ,underpinning and scaffolding				
3A.	What is meant by seasoning of timber? Explain any two methods of seasoning.				
3B.	Write short note on: (i) Properties of rubber (ii) Characteristics of an ideal paint				
3C.	What is meant by 'BOGUE' compounds? Explain the role of each compound.				
4A.	How does the geometry and surface texture of Aggregates affect the fresh properties of concrete				
4B.	What is membrane curing?.				
4C.	Explain the features of fresh concrete with respect to slump.				
5A.	How does porosity affect the strength and durability characteristics of concrete				
5B.	Explain the stress strain behavior of hardened concrete with graph.				
5C.	How will you obtain high strength concrete?	4			

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