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# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

## III SEMESTER B.TECH. (CIVIL ENGINEERING) END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: BUILDING ESIENCE & TECHNOLOGY [CIE 2103]

REVISED CREDIT SYSTEM

(28/11/2016)

Time: 3 Hours

MAX. MARKS: 50

### Instructions to Candidates:

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

1A.	Explain various important physical properties of ordinary cement.	4	CO1
1B.	Differentiate between the following: (a) Weigh batching and volume batching (b) Segregation and bleeding of concrete. (c) Initial setting time and final setting time (d) Aggregate crushing value and impact value.	6	CO1 & CO2
2A.	Explain the following a) Alkali Aggregate Reaction b) Compaction of concrete by pressure and jolting.	5	CO1 & CO2
2B.	Write a short note on following along with their applications: (a) Shoring (b) Grading of aggregates	5	CO3 & CO5
3A.	With the help of simple plan & elevation, explain Single Flemish bond and Double Flemish bond.	5	CO2
3B.	Name different types of Rubble masonry Explain different types of Rubble masonry.	5	CO1
4A.	Explain various classifications of Plastics. Explain vulcanization of Rubber.	5	CO1
4B.	Explain 4 types of glasses .Write two points for each. Write 4 uses of glass.	5	CO1
5A.	Write four properties of good tiles? Name 4 types of roofing tiles used on pitched roof? Explain three varieties of such tiles with the help of neat sketches	5	CO4
5B.	Write the differences between tar and bitumen.	3	CO1
5C.	Explain two types of seasoning.	2	CO2