

MANIPAL INSTITUTE OF TECHNOLOGY

III SEMESTER B.TECH. (CIVIL ENGINEERING) END SEMESTER EXAMINATIONS, NOV/DEC 2016 SUBJECT: BUILDING SCIENCE & TECHNOLOGY [CIE 2103] REVISED CREDIT SYSTEM

(/ / 2016)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

Answer **ALL** the questions.

Draw a neat diagram if necessary

1A.	Name all constituents of cement clinker. And write formula of each and write any four points of each constituent.	5	CO1
1B.	Write shorts on a) self-compacting concrete b) Portland cement and its grades	5	CO5
2A.	What is bulking of sand? How do you find bulking of given sand? What is the significance of the same?	3	CO2
2B.	Write short note on (a) Polymer Concrete .(b)Aggregate crushing value (c)Normal consistency of cement	3+2 +2	CO5
3A.	Explain classification of bricks based on engineering property. (Strength and water absorption).Write four features of all classes.	5	CO2
3B.	Name different types of Ashlar masonry. Explain different types of Ashlar masonry.	5	CO1
4A.	Explain 4 types of glasses .write two points for each. Write 4 uses of glass.	5	CO1
4B.	Write short note on underpinning.	5	CO5
5A.	Explain with the neat sketches, i) Flat arch ii) Relieving arch	5	CO4
5B.	Explain all Classes of Lime.	5	CO1