

Maharashtra Institute of Technology, Aurangabad

(An Autonomous Institute)

END SEMESTER EXAMINATION

Second Year B.Tech (CIVIL) – Feb/Mar-2023

Course Code : CED 204

Course Name : Concrete Technology

Duration : 2 Hrs

Max. Marks : 50

Date :

Instructions :

10 FEB 2023

- i) All questions are compulsory
 ii) Assume suitable data wherever necessary and clearly state it
 iii) Figures to right indicate full marks

Q. 1	Answer any five(Marks:10)	Marks	CO	BL	PI
a)	What do you understand by superplasticizers?	2	1	1	3.4.1
b)	Distinguish between weigh batching & volume batching.	2	1	1	3.4.1
c)	Enlist properties of aggregates.	2	2	2	3.4.2
d)	Enlist the different methods of concrete mix design.	2	2	2	3.4.2
e)	What is the role of quality control of materials in concrete?	2	2	2	3.4.2
f)	State the chemical composition of typical Portland cement.	2	2	2	3.4.2
g)	Enlist the types of cement.	2	1	1	3.4.1
h)	What is the meaning of characteristic strength of concrete?	2	1	1	3.4.1
Q.2	Enlist the types of special concrete. Explain any 3 with their applications.	8	6	4	4.2.1
Q.3	State objectives, advantages & disadvantages of RMC.	8	3	3	4.2.2
Q.4	State & explain the different curing methods of concrete.	8	4	3	4.2.2
Q.5	What do you understand by destructive & non-destructive testing of concrete? Explain in detail.	8	4	4	5.1.1
OR					

	What precautions should be taken during compaction of concrete? Describe the methods of compaction of concrete.	8	5	4	5.1.1
Q.6	a) Distinguish between hand mixing & machine mixing of concrete. b) State good qualities of an aggregate.	8	5	4	5.1.2
	OR				
	What are the different lab tests carried out on cement? Explain any one in detail.	8	3	4	5.1.2