

G. S. Mandal's

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 :

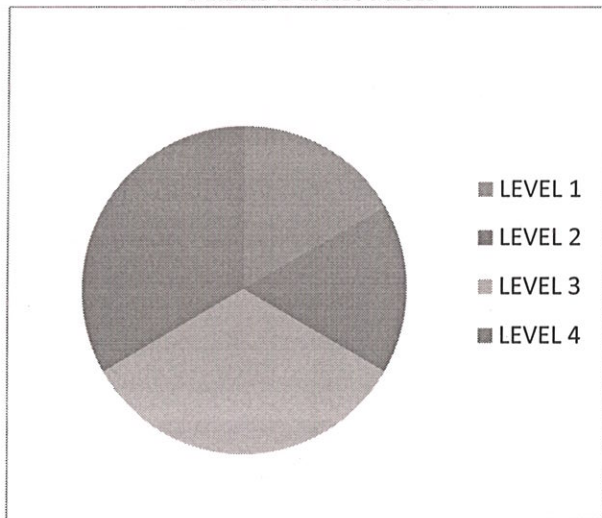
Instructions :

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

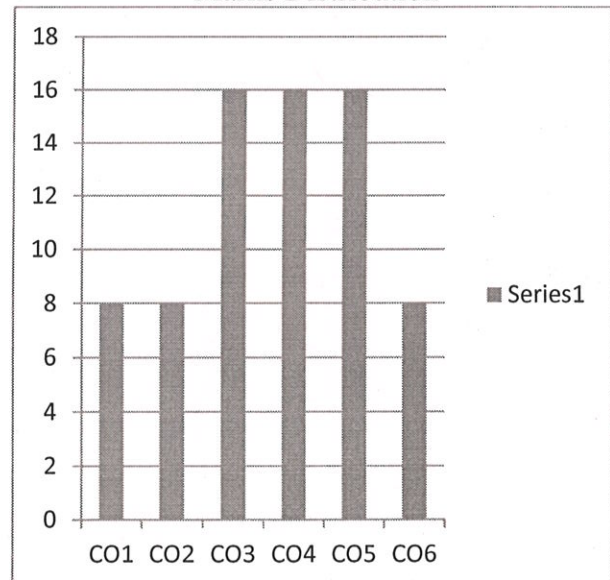
Q. 1	Answer any five(Marks:10)	Marks	CO	BL	PI
a)	What do you understand by superplasticizers?	2	1	1	3.4.1
b)	Distinguish between weigh batching & volume batching. (2 marks for 2 points)	2	1	1	3.4.1
c)	Enlist properties of aggregates. (1/2 mark each)	2	2	2	3.4.2
d)	Enlist the different methods of concrete mix design. (1/2 mark each)	2	2	2	3.4.2
e)	What is the role of quality control of materials in concrete? (2 marks for 2 points)	2	2	2	3.4.2
f)	State the chemical composition of typical Portland cement. (1/4 mark each)	2	2	2	3.4.2
g)	Enlist the types of cement. (1/2 mark each)	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. (2-2-2-2 marks respectively)	8	6	4	4.2.1
Q.3	State objectives, advantages & disadvantages of RMC. (2-3-3 marks respectively)	8	3	3	4.2.2
Q.4	State & explain the different curing methods of concrete. (2-6 marks respectively)	8	4	3	4.2.2

Q.5	What do you understand by destructive & non-destructive testing of concrete? Explain in detail. (4 marks each)	8	4	4	5.1.1
OR					
	What precautions should be taken during compaction of concrete? Describe the methods of compaction of concrete. (3-3 marks respectively)		5	4	5.1.1
OR					
Q.6	a) Distinguish between hand mixing & machine mixing of concrete. (4 marks) b) State good qualities of an aggregate. (4 marks)	8	5	4	5.1.2
OR					
	What are the different lab tests carried out on cement? Explain any one in detail. (2-6 marks respectively)		3	4	5.1.2

Blooms Level Wise Marks Distribution



Course Outcome Wise Marks Distribution




 (DR. S. S. KORANNE)
 Paper Setter Signature