VII SEMESTER B.TECH (CIVIL) END SEMESTER EXAMINATIONS NOVEMBER 2022

SUBJECT: CONSTRUCTION MATERIALS AND QUALITY MANAGEMENT [CIE 4053]

Date of Exam: /11/2022 Time of Exam: – am/pm Max. Marks: 50

Instructions to Candidates:

❖ Answer ALL the questions & missing data may be suitably assumed

Q. No		Marks	СО	BL		
1A	Discuss materia and ii) Material d	4	1	2		
1B	Discuss the sign	3	1	2		
1C	Discuss the standardization.	3	2	2,1		
2A	Discuss the obje	2	2	2		
2B	Illustrate the mat	3	2	2		
2C	Classify the follo Material code CM1 CM2 CM3 CM4 CM5 CM6 CM7 CM8 CM9 CM10	wing material into A, Unit cost (×10³ ₹) 0.36 66.57 0.04 0.885 9.165 0.006 0.038 0.092 0.068 0.062	B, and C classes. Quantity consumed per annum (×10³) 0.81 0.75 7.476 7.512 27 52.5 62.25 75.375 77.46 97.125	5	2	3

3A		sting technique be	· _		3	3
3B	Discuss the factors which equipment and consumables.	¹ 3	3	2		
3C	Discuss the stages of impleme	2	5	2		
4A	hindsight approach. Compute The project requires 100 units is 300 units. Month 1 2 Price (₹) 582 578 5 Month 11 12 1	the total expendices per month and the second secon	a purchase strategy using the ture for the project plan period ne maximum inventory capacity 6 7 8 9 10	-	3	3
4B	Compare Quality Assurance a	2	4	2		
	Apply the internal rate of retumore profitable at r=10 %, and	3				
4C	Equipment Capital Investment (lakh ₹)	GAR (lakh ₹)	ADED (lakh ₹) Useful life (years)	4	3	3
	A 9	3.6, 3.8, 3.2, 3, 2.4 6, 6.4, 7, 7.8,	1.38, 1.2, 1.2, 1.02, 1.14 5 2.8, 3, 2.6, 3, 2.8			
	B 12 Discuss, with a neat sketch,	<i>j</i>				
5A	possible causes of a problem.	4	5	2		
5B	List all the quality control tools	3	5	1,2		
5C	Draw a neat house of quality a	3	5	1,2		