Hall Ticket Number :									
Code: 7G651	1	Į.	1	<u>L</u>	I			R-17	

III B.Tech. I Semester Supplementary Examinations Nov/Dec 2022

Design and Drawing of Reinforced Concrete Design

(Civil Engineering)

Max. Marks: 70 Time: 3 Hours

Answer any five full questions by choosing one question from each unit (5x14 = 70 Marks)

PART-A Answer any one question carry's 28 marks

		Answer any one question carry's 28 marks			
			Marks	СО	BL
1	28M	3	3		
		OR esign a square footing for a short axially loaded column of size 300mm x 300mm			
2	28M	5	3		
		PART-B			
		Answer any three questions			
		Each question carry's 14 marks			
3.	a)	What is meant by limit state? Discuss different limit states to be considered in reinforced concrete design	10M	1	1
	b)	List out the assumptions made in limit state method.	4M	1	1
4.		Design the torsion reinforcement for a beam of size 300X600mm in size is subjected to shear force 70KN,torsionalmoment 50KNm and bending moment 24KNm.Consider 0.3% of tension steel is provided, M 20 grade concrete and mild steel bars. Assume any required data.	14M	2	3
5.		Design a rectangular column of 4.5 m unsupported length, restrained in position and direction at both the ends, to carry an axial load of 500 kN and moment 310KNm. Use M20 grade concrete and Fe415 steel.	14M	4	2
6.		Check for the limit state of deflection using empirical method for the T beam with following data. Ast = 1600 mm 2 ; Asc=900 mm 2 , bw=300mm, d=400mm, bf= 900mm; Fe415; Span= 8m and continuous	14M	5	2
7.	a)	Differentiate the working stress method and limit state method.	10M	1	1
	b)	Define neutral axis and lever arm.	4M	1	1
	,	***END***			

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III B.Tech. I Semester Supplementary Examinations Nov/Dec 2022

Managerial Economics and Financial Analysis

(Civil Engineering)

	Max. Marks: 70	Time: 3		
	Answer any five full questions by choosing one question from each unit (5x	14 = 70 N	Marks)	
		Marks	СО	Blooms Level
	UNIT-I			
1.	Define Managerial Economics. Write about the nature and scope o managerial economics.		CO1	L1
	OR			
2.	What is opportunity cost? How it is calculated? Describe the significance o opportunity cost in allocation of resources by firms.		CO1	L1
	UNIT-II			
3.	What is Break even analysis? Show the graphical representation for BEA with			
	its assumptions and importance.	14M	CO1	L1
	OR			
4.	Explain the different statistical methods of demand forecasting.	14M	CO1	L2
	UNIT-III			
5.	Discuss briefly:			
	a) Market skimming pricing			
	b) penetration pricingc) Block pricing	1414	CO1	L2
	OR	14111	COT	LZ
6.	_	,		
0.	Explain with neat diagrams the price determination under perfect competition in long run and short run.		CO1	L2
	UNIT-IV	1 1141	001	
7.	Prepare journal entries and Ledger accounts from the following:			
	Jan 1 started Business with cash Rs.10, 000.			
	Jan 3 Deposited into Bank Rs.15, 000			
	Jan10 Purchased Machinery Rs.34, 000 from Jawahar. Jan 16 sold goods for cash Rs.52, 000			
	Jan 20 received cash from Business Rs.12, 000	14M	CO2	L2
	OR			
8.	Write in detail about the Features of Capital Budgeting.	14M	CO2	L1
	UNIT-V			
9.	Define ratio. Write about the significance of Financial ratios in Business.	14M	CO3	L1
	OR			
10.	A firm sold goods worth Rs. 5, 00,000 and its gross profit is 20 percent o			
	sales value. The inventory at the beginning of the year was 14,000. Compute		000	
	inventory turnover ratio and also the inventory holding period. ***	14IVI	CO3	L4
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