PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE (AUTONOMOUS) IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022 ESTIMATING, SPECIFICATIONS AND CONTRACTS (CE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)									
PART-A									
A norman and thus a mostions in Dant A (2V12-2(M))									

Answer any three questions in Part-A (3X12=36M)									
Q.N	Jo.	Questions						CO	KL
1.	a)	Define Estimation and explain the types estimates briefly?						1	1
	b)	Prepare an approximate estimate for a residential building with the following data by using plinth area method. (a) plinth area = 100 m ² (b)plinth area rate of structural cost = Rs 3200 per m ² (c)provide the following as a percentage on the structure cost 1.water supply and sanitation = $12\frac{1}{2}$ 2.Electrification = $7\frac{1}{2}$ % 3. Architectural purpose = 1% 4. work charged establishment = 3%						1	2
2.	a)	Prepare Flooring exceedi sq.m. M Shahaba	[6M]	2	3				
	b)	2.20 Nos Man mazdoors Prepare a data sheet and calculate the cost of items given below? Painting with white cement paint 1 st quality two coats to walls after surface is thoroughly cleaned including cost and conveyance of materials to site etc. 10 sq.m Painting with white cement paint – 10 sq.m 3.5 Kg White cement paint 0.15 Nos Mason I Class 0.35 Nos Mason II Class 0.50 Nos Man mazdoors 1.00 Nos Women mazdoors S.No Material						2	3
		1	Polished stone	1650/- per 10 sq.m	(Km) 8	charges/km Rs.10/- sq.m			
		2	Sand	250/- cum	20	Rs 160/- for 20Km/1 cu.m			
		3Cement3400/MT43/bag4White cement paint15/kg							
		4							

											<u> </u>	
		Labour o	0									
		I Class Mason Rs 160/-										
		II Class Mason Rs 140/-										
		Man mazdoors Rs 110/-										
		Women r	nazdoors		Rs	110/-						
		Mixing charges of C.M Rs 20/- cu.m										
3.		A road is proposed to construct in embankment with the following data:							[12M]	3	3	
		Formation width of road $= 8m$										
		Side slopes in embankment = $2:1$										
			nd levels a									
		R.L of	98,200	97,8	98,000	98,400	98,500	98,3	98,900			
		the		00				00				
		groun										
		d in										
		mts:										
		Chain	0	30	60	90	120	150	180			
		age in										
		mts:										
		The formation level may be taken as 100,000mts. constant from 0 mts to 180)		
		mts Chainages. Calculate the quantity of earth work involved by										
		a) Trapezoidal formula										
		b) Prismoidal formula										
4	a)	Explain about contracts and type of contracts?							[6M]	4	2	
	b)	List-out the types of Documents need for the contract?								[6M]	4	1
5	a)	Define valuation, write the needs of valuation and what, who valuate the buildings?							e [6M]	4	1	
	b)	Explain a	bout valua	tion and	types of	valuation	?			[6M]	4	2
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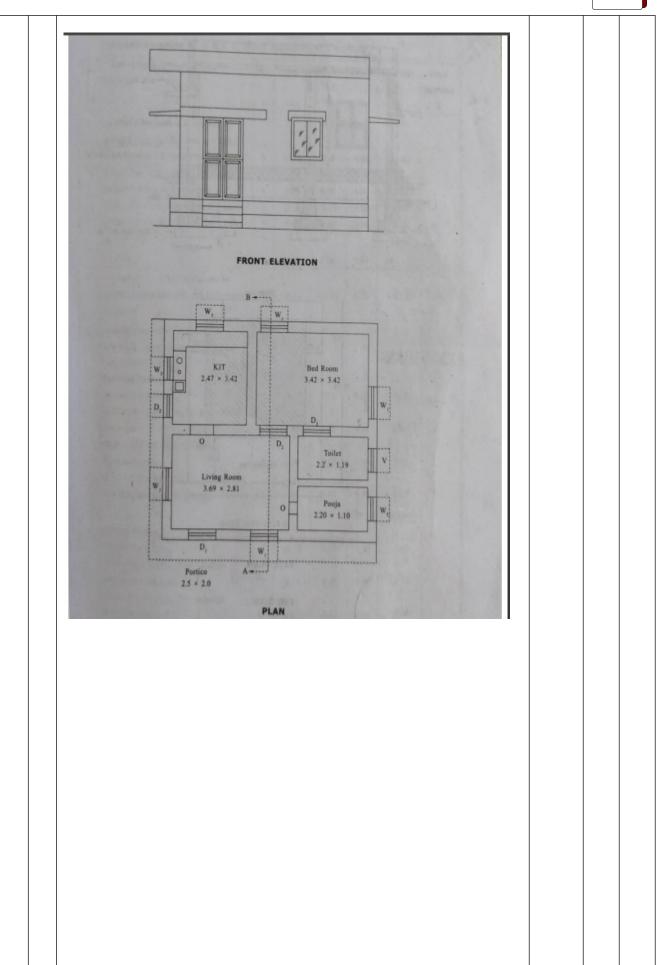
PART-B

Answer the Question compulsory (1X24=24M)

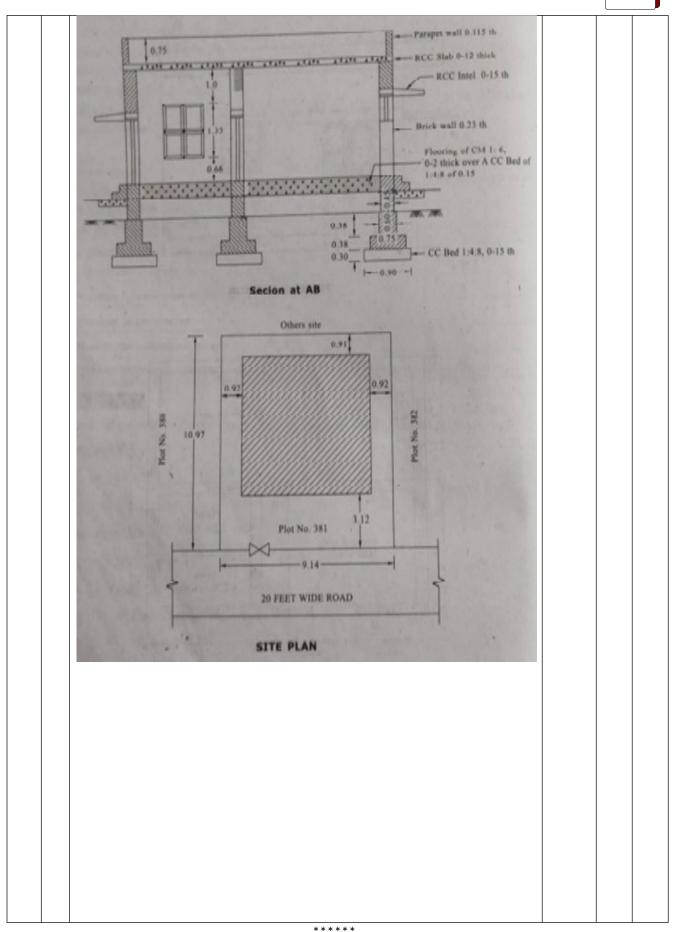
Q.No.	Questions	Marks	CO	KL
6	Find the quantities of the following by individual wall Method:	[24M]	5	4
	a. Brick masonry			
	b.Plastering with C.M(1:5) with deductions			
	c. Painting			
	d. Flooring			
	e. RCC for sunshades with an average thickness of 0.07 m			
	by using below image data.			
	D1 - panalled door 1 x 2 m			
	D2 - panalled door 0.9 x 2 m			
	D3 – panalled door 0.75 x 2m			
	W1 – Glazed windows 0.9 x 1.35m			
	W2 – panalled window 0.75 x 0.60m			
	W3 – panalled window 0.60 x 0.45m			
	V- plazed ventilator 0.75 x 0.3m			

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R18



R18



R18