

HALL TICKET NUMBER

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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-AAnswer **any three** questions in Part-A (3X12=36M)

Q.No.		Questions	Marks	CO	KL																									
1.	a)	Define Estimation and explain the types estimates briefly?	[6M]	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 = 12½ 2.Electrification = 7½ % 3. Architectural purpose = 1% 4. work charged establishment = 3%	[6M]	1	2																									
2.	a)	Prepare a data sheet and calculate the cost of items given below. Flooring with 25mm thick polished Shahabad stone of 1 st quality of size not exceeding 400X400mm, laid over set in CM (1:10) 16mm thick base coat-10 sq.m. Materials and labour required for flooring with 25mm thick polished Shahabad stone 10 sq.m. 10.10 sq.m polished stone 0.12 cu.m CM (1:10) ----- cu.m Sand ----- cu.m Cement 0.96 Nos Mason I Class 2.24Nos Mason II Class 2.20 Nos Man mazdoors	[6M]	2	3																									
	b)	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	[6M]	2	3																									
		<table><tr><th>S.No</th><th>Material</th><th>Rate(Rs)</th><th>Lead (Km)</th><th>Conveyance charges/km</th></tr><tr><td>1</td><td>Polished stone</td><td>1650/- per 10 sq.m</td><td>8</td><td>Rs.10/- sq.m</td></tr><tr><td>2</td><td>Sand</td><td>250/- cum</td><td>20</td><td>Rs 160/- for 20Km/1 cu.m</td></tr><tr><td>3</td><td>Cement</td><td>3400/MT</td><td>4</td><td>3/bag</td></tr><tr><td>4</td><td>White cement paint</td><td>15/kg</td><td>-</td><td>-</td></tr></table>	S.No	Material	Rate(Rs)	Lead (Km)	Conveyance charges/km	1	Polished stone	1650/- per 10 sq.m	8	Rs.10/- sq.m	2	Sand	250/- cum	20	Rs 160/- for 20Km/1 cu.m	3	Cement	3400/MT	4	3/bag	4	White cement paint	15/kg	-	-			
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		Labour charges: I Class Mason
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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: 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 - panelled door 1 x 2 m D2 – panelled door 0.9 x 2 m D3 – panelled door 0.75 x 2m W1 – Glazed windows 0.9 x 1.35m W2 – panelled window 0.75 x 0.60m W3 – panelled window 0.60 x 0.45m V- glazed ventilator 0.75 x 0.3m	[24M]	5	4




