		GUJARAT TECHNOLOGICAL UNIVERSITY	
DIPLOMA ENGG V ^{III} SEMESTER-EXAMINATION – JUNE- 2012			× 10010
Subje	ect cod	e: 351905/2351905 Date: 08/0	6/2012
Subje Time	ect Nar	ne: Estimating costing and contracting	nka. 70
Inne: 10:50 and – 01:00 pm 10tar Warks: Instructions:			rks: /U
msu		IS: compt all guastions	
	1. Au 2. Ma	ke suitable assumptions wherever necessary.	
	3. Fig	ures to the right indicate full marks.	
	4. Eng	glish version is considered to be Authentic	
Q.1	(a)	Explain the importance of costing and cost estimating in an industry.	07
02	(D)	List and explain different elements of cost	07
Q.2	(a)	What is overhead? Describe fixed and variable overhead with	07
	(b)	Define Depreciation and Obsolescence. State types of depreciation	07
	(0)	in detail.	01
		OR	
•	(b)	Draw and explain block diagram of selling price and catalogue price.	07
Q.3	(2)	Describe procedure of cost estimation in arc welding	07
	(b)	250 No. M.S. Pins of 4 cm. diameter and 15 cm. length are to be	07
	()	drop forged from a bar stock of 5 cm. diameter. Calculate the	
		material cost, if bar is available at Rs. 80/meter length. Assume all	
		possible losses.	
Q.3	(a)	Define the following terms	07
	()	1) Net weight 2) Shape weight 3) Gross weight	•••
		4) Tong loss5) Scale loss6) Shear loss7) Flash loss	
	(b)	Estimate the time required to drill 4 holes in C.I Flange from the	07
		Hole length: - 20 mm Hole dia: - 12 mm	
		Cutting speed:- 15 mm/min. Feed:- 0.2 mm/rev.	
Q.4			
	(a)	Define pattern. List and explain types of pattern allowance.	07
	(D)	Calculate the total milling time required to cut 60 teeth on a gear blank having length of cut and feed are 60 mm and 35 mm/min	07
		respectively. Take over all set-up time is 10 min.	
		OR	
Q. 4	(a)	Discuss the types of sheet metal joints in brief.	07
	(D)	A conical body of base 10 cm. diameters and attitude 20 cm. is to be	07
Q.5		covered by a sheet. This the area of sufface to be covered.	
<u></u>	(a)	Define Break Even Point. Derive an equation for BEP analytically.	07
	(b)	What are the areas of cost reduction? Explain in brief.	07
0 -	(-)	OR	07
Q.5	(a) (h)	List and explain the documents required in an engineering contract	07 07
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