Seat I	No.: _								Enrolment N				
								OGICAI					
Subi		PLOM. code: 3			III ^{ru} (SEM	IESTER	–EXAMINA	ATION – M		NE- 2012 31/05/2012		
•	*				ion '	Tecl	hnology	y -1		Date.	31/03/2012		
Tim	Marks: 70												
Inst	ruct	ions:			•								
		Attem	_	-									
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.											
		_		_				Authentic					
Q.1 (a) Estimate the COST & weight of following sections and filling gap given table for 1 Meter / unit length (assume density/ sp. Weight													
	material = 7.85 gm/ cm ³ Cost of raw-material = 75 RS./ kg)												
		DATA FOR T-SECTION:-								TD 4 1	04		
			MM	ENSIC	NI IN		X-Sec AREA	VOLUME	WEIGHT	Total cost			
		1,0.	Н	В	$T_{\rm w}$	$T_{\rm f}$	Cm ²	Cm ³	Kg/M	Rs.			
		1	150	150	10	10							
		SR.	A FOR	ANG ENSI			-Sec	VOLUME	WEIGHT	Total	04]		
		NO.			OIV		REA		WEIGITI	cost			
			Н	В	T	Cı	m^2	Cm ³	Kg/M	Rs.			
		1	65 EOR	65 L SE	8 CTIO	NI ·					06		
	DATA FOR I- SECTION :- SR. DIMENSION IN				X-Sec	VOLUME	WEIGHT	Total	06				
		NO.					AREA	2		cost			
		1	H 120	B 60	T _w 5	T _f 5	Cm ²	Cm ³	Kg/M	Rs.			
Q.2		1	120	00	13	5							
	(a)							olasma cutting			07		
	(b)	_	_					er following	-	-	07		
		_				_		Write the step ength $L = 60$					
			W=	= 40	mm b	y on	ly						
		(2		_	_		_	line in a give		ent)			
	\overline{AB} = 100 mm from point A (i.e. End point) OR												
	(b)	Comp	are we	lded fa	abrica	tions		er methods of	manufactur	ing	07		
Q.3	(-)	D.C.	1					C			07		
	(a)		Define and explain in brief the process of :- Lining, 2) Leveling, 3) Plumbing,										
	4) Alignment, 5) Erection tolerance.												
	(b)		he fabr hop Ex		_		work per	formed in str	uctural fabric	ation	07		
			nop Ex nplate	•			ation.						
			_			_	n by faste	ning items.					
Ω^2	(2)	Evala	in in b	riof r	ioo x	ith =	OR		07				
Q.3	(a)) Explain in brief vice with neat sketch.											
	(b)	Draw neat sketch of miscellaneous tools and equipment used in fabrication shops											

Q.4												
Q. 1	(a)	Explain in brief 1) Storing, 2) Handling, 4) Color coding of structural steel.	3) Stacking,	07								
	(b)	 Explain safe and correct practice in ber Classify the files on various basis. OR	nch work and fitting shops.	07								
Q. 4	(a)	Explain in brief with neat sketch:- 1) Mechanical Fasteners (nuts and bolts). 2) List out the application of product of structural fabrication work.										
	g dimensions and data. etals = 70Rs./kg)	07										
Q.5												
	(a)	Prepare chart of commercial forms of metal for (Any -5) state their										
	(b)	typical application Draw a neat sketch of the square frame made by following methods 90° fit-up and set-up. Prepare a bill of material (B. O. M.) for them also write the sequence of operation performed on it.										
0.5	OR											
Q.5	(a)	(a) Estimate the COST & weight of following sections and filling gaps in given table for 1Meter ./ unit length (assume density/ sp. Weight of material = 7.85 gm/ cm ³ Cost of raw-material = 60 RS./ kg) DATA FOR HEXAGONAL BAR:-										
		SR. DIMENSION AREA VOLUM										
		NO. A/F (ACROSS FLATE)	cost									
		MM Cm ² Cm ³	KG/M Rs									

Explain in brief: structural fabrication code and standards
 List the structural fabrication industries with their name of product to be manufactured/fabricated.

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