Sea	nt No.:	Enrolment No.	_
	DIPL	GUJARAT TECHNOLOGICAL UNIVERSITY OMA ENGINEERING - SEMESTER-VIII • EXAMINATION-SUMMER • 2014	
Su	bject	Code: 385501 Date: 22/05/2014	
Ti	-	Name: Costing Estimation & Management 2:30 pm - 05:00 pm Total Marks: 70	
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. English version is considered to be Authentic.	
Q.1	(a) (b)	Define the term "COSTING". Describe its need in Fabrication Industries. Explain Uses of Estimation & Costing in Fabrication Industries.	07 07
Q.2	(a) (b)	Give Classification of Costs and describe Costing method. Describe Procedure of Material Costing calculation for Pressure Vessel with suitable example. OR	07 07
	(b)	Describe Procedure of Labour Costing calculation for Heat Exchanger with suitable example.	07
Q.3	(a) (b)	Draw Organization Chart of Estimation Department and state its functions. Estimate the machining time to turn a M.S. bar of 3 cm dia. to 2 cm for a length of 6 cm in a single cut. Assume Cutting speed as 60 m/min. and Feed rate as 0.2 mm per rev.	07 07
Q.3	(a) (b)	OR Describe Function of PPC Department in Fabrication Industries. Find the time required to drill 4 holes in a flange each of 1.5 cm depth, if the hole dia. is 3 cm. Assume cutting speed as 30 m/min and feed as 0.1 cm/ rev.	07 07
Q.4	(a) (b)	Describe Stop Watch Time Study method with suitable Example. Draw neat sketch of a Hexagonal headed Bolt having Head Dimensions 4cm across flat × 2.5cm length and Thread portion Dimensions Ø2cm ×20cm length. Estimate the size of stock and weight of material required to forge 50 mild steel bolts from the bar stock Diameter is 3 Cm. OR	07 07
Q. 4	(a) (b)	Draw Product Type Plant Layout suitable for a Fabrication Shop and Explain. Calculate Arc Welding Cost for Joining TWO steel plates 200mm length having 20 mm Thickness by Double V Joint.	07 07
Q.5	(a) (b)	Write Short note on Value Analysis. Write meaning of KAIZEN. State its application. OR	07 07

(a) Describe Steps of Designing a Storage Tank.

State application of Modern Management Techniques.

Q.5

(b)

07

07