Seat	No.: .	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		DIPLOMA ENGG IV th SEMESTER-EXAMINATION – JUNE- 2012	
Sub	ject	code: 345503 Date: 19/06/2012	
Subject Name: Plant Equipment Maintenance & Eraction			
Tim	e: 02	2:30 pm – 05:00 pm Total Marks: 70	
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
	4.	English version is considered to be Authentic	
Q.1	(a)	Define the term "Plant'. Give classification of 'Plant Equipments'. Draw typical 'Plant Lay out'.	07
	(b)	Prepare list of different type of 'Valves'. Draw neat sketch and explain Gate Valve'.	07
Q.2			
	(a)	Draw neat sketch of 'Centrifugal Pump' and describe its working.	07
	(b)	Give classification of 'Compressors'. Describe working of 'Reciprocating Compressor' with neat sketch.	07
	<i>(</i> 1.)	OR	
	(b)	Differentiate between 'Centrifugal Pump' and Reciprocating Pump' with neat sketch	07
Q.3			
۵.0	(a)	Differentiate between 'Fan' and 'Blower' with neat sketch.	07
	(b)	Define the term 'Pipe'. Draw neat sketch and state functions of SEVEN 'Piping Elements',	07
		OR	
Q.3	(a)	Draw neat sketch of 'Simple Vertical Boiler'. State functions of each part.	07
	(b)	State functions of 'Expansion Joint' and draw neat sketches of its SEVEN types.	07
Q.4			
	(a)	Draw neat sketch of 'Steam Power Plant'. State functions of its elements.	07
	(b)	Write Meaning, Principal, Benefits and Applications of TPM.	07
0.4	(-)	OR	07
Q.4	(a) (b)	Draw neat sketch of 'Diesel Power Plant'. State functions of its elements. Define the term 'Corrosion'. Tabulate its Types, Sketch, Causes and Remedies.	07 07
	(D)	Define the term Corrosion. Tabulate its Types, Sketch, Causes and Remedies.	01
Q.5	(a)	Define the term 'Tribology'. Tabulate Types, Causes and Remedies of 'Wear'.	07
	(b)	Define the term 'Erection'. Write steps for erection of 'Heat Exchanger' in a plant.	07
0.5	(2)	OR Define the term 'Equadation' State its types and Functions	07
Q.5	(a) (b)	Define the term 'Foundation'. State its types and Functions. Describe procedure of using 'Transparent Water Tube' for erection of an Equipment	07 07
	` '	in a Plant.	
