Seat No.:	Enrolment No.:

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER - IV • EXAMINATION - SUMMER 2017

g		Code: 3345503 Date: 1-05-201	5-2017	
T	ime:10 astructior 1. Att 2. Ma 3. Fig 4. Use 5. Use	Name: Plant Equipment Erection & Maintenance 30 To 1.00PM Total Marks: 70 as: Descript all questions. Descript all questions wherever necessary. Descript the right indicate full marks. Descript of programmable & Communication aids are strictly prohibited. Description of only simple calculator is permitted in Mathematics. Description of the programmable of the properties of the programmable of the properties of the properti	0	
Q.1	(a) (b)	Draw neat sketch of thermal Power Plant. State functions of each element. Describe working of Cochran Boiler with neat sketch.	07 07	
Q.2	(a) (b)	Describe difference between centrifugal and reciprocating pump. Definition of boiler according to "IBR". State and Explain factors affecting selection of Boiler. OR	07 07	
	(b)	Draw neat sketch of Heat Exchanger. State functions of each element.	07	
Q.3	(a) (b)	Describe Working of Agitator and State its functions with neat sketch. Differentiate between Fan and Blower. OR	07 07	
Q.3	(a) (b)	Describe difference between Fire tube and Water tube Boiler. Describe working of Reciprocating Compressor with neat sketch.	07 07	
Q.4	(a) (b)	Define term "Foundation". Classify foundation with sketch. Draw neat sketch and Find Center of Gravity for the I-section having following dimensions: Top Flange:- 60mm×20mm Bottom Flange:- 50mm×30mm Web:-75mm×25mm	07 07	
Q.4	(a)	OR What is the function of foundation bolt? List foundation bolt and explain any	07	
	(b)	one with sketch. Describe the meaning of erection and explain erection procedure for the equipment.	07	
Q.5	(a) (b)	Describe the principle of corrosion. List different types of Maintenance. State functions of Maintenance Department. OR	07 07	
Q.5	(a) (b)	Describe factor affecting corrosion. Define maintenance engineering. List various aims of maintenance program.	07 07	
