

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –IV • EXAMINATION – SUMMER 2015

Subject Code: 3345503**Date: 07/05 /2015****Subject Name: Plant Equipment Erection & Maintenance.****Time: 10:30 am to 1:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Prepare Classification chart of different types of Plants. Draw Process type plant lay out. **07**
(b) Describe Thermal Power Plant with schematic diagram. **07**
- Q.2** (a) Describe working of Cochran Boiler with neat sketch. **07**
(b) List Different Mounting and Accessories of Boiler and their Functions.. **07**
- OR
- (b) Describe functions of Pressure Vessels with its constructional figure. **07**
- Q.3** (a) Define the term “Pump”. Prepare its classification chart. **07**
(b) Describe working of Reciprocating Compressor with neat sketch. **07**
- OR
- Q.3** (a) Describe working of Centrifugal Pump with neat sketch. **07**
(b) Define the term “Valve”. State its function and application. **07**
- Q.4** (a) Defferntiate between Fan and Blower with neat sketch. **07**
(b) Describe Function, Classification and Constructional Figure of any TWO material Handling Equipment. **07**
- OR
- Q. 4** (a) List out Factors affecting to Corrosion. Explain Any TWO. **07**
(b) Define term “Foundation”. Describe method of Foundation. **07**
- Q.5** (a) Find Center of Gravity for the T-section having following dimensions: **07**
Flange:- 60mm×25mm
Web :-40mm×25mm
(b) Describe installation procedure for a Machine/Equipment. **07**
- OR
- Q.5** (a) Define the term “Maintainability”. Describe Total Productive Maintenance. **07**
(b) Define the term “Corrosion”. Describe any ONE Corrosion Prevention Method. **07**
