

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER-IV • EXAMINATION – WINTER - 2016

Subject Code: 3345503**Date: 22- 11-2016****Subject Name: Plant Equipment Erection & Maintenance****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt any five 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 Product type plant lay out. **07**
(b) Draw neat sketch of thermal Power Plant. State functions of each element. **07**
- Q.2** (a) Describe meaning of the term IBR. State factors affecting selection of Boiler. **07**
(b) Draw neat sketch of Heat Exchanger. State functions of each element. **07**
OR
(b) Draw neat sketch of Cochran Boiler. State functions of each element. **07**
- Q.3** (a) Describe Filter and State its functions with neat sketch. **07**
(b) Defferntiate between Fan and Blower with neat sketch. **07**
OR
- Q.3** (a) Describe Working of Agitator with neat sketch. **07**
(b) State and explain factors affecting selection of Material Handling Equipment. **07**
- Q.4** (a) Draw neat sketch of Globe Valve. State its functions and application. **07**
(b) Describe working of Reciprocating Compressor with neat sketch. **07**
OR
- Q. 4** (a) Define the term “Valve”. State its function and application. **07**
(b) Draw neat sketch of Centrifugal Pump. Prepare classification chart form of Pumps. **07**
- Q.5** (a) Find Center of Gravity for the T-section having following dimensions: **07**
Flange:- 50mm×30mm
Web :-60mm×20mm
(b) Define the term “Maintenance”. List different types of Maintenance. State functions of Maintenance Department. **07**
OR
- Q.5** (a) State meaning of the term “Corrosion”. Describe Methods of its Prevention. **07**
(b) Describe installation procedure for a Machine/Equipment with neat sketch. **07**
