

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER • 2015****Subject Code: 345503****Date: 07-05-2015****Subject Name: Plant Equipment Maintenance and Erection****Time: 10:30 am - 01:00 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) State meaning of the term “Plant”. Prepare list of different types of plants. **07**
Draw any one type of Plant.
- (b) Draw schematic diagram of Diesel power plant and Explain its working. **07**
- Q.2** (a) Prepare list of different types of Valves. Explain working of Gate Valve with neat sketch. **07**
- (b) Compare Centrifugal pump and Reciprocating pump with neat sketches. **07**
- OR
- (b) Draw neat sketch of Surface Condenser. Describe its working. **07**
- Q.3** (a) Differentiate between FAN and BLOWER with neat sketches. **07**
- (b) Describe Responsibilities of Maintenance department. **07**
- OR
- Q.3** (a) Describe the term “Preventive Maintenance”. State its advantages. **07**
- (b) Draw neat sketch of Expansion joint. State its functions. **07**
- Q.4** (a) Explain meaning of Total Productive Maintenance with suitable example. **07**
- (b) Define the term “Tribology”. Describe causes and remedies of Wear. **07**
- OR
- Q.4** (a) Describe Advantages of Condition Based Maintenance with suitable example. **07**
- (b) Describe Steps of Shut-down planning for maintenance of process plant. **07**
- Q.5** (a) Draw neat sketch of Erection of a Pressure Vessel. Prepare list of different equipments used. **07**
- (b) State meaning of the term “Foundation”. Describe its functions. **07**
- OR
- Q.5** (a) State meaning of Advance planning and site operation for Erection work with suitable example. **07**
- (b) Describe different types of Foundation with neat sketches. **07**
