

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Sem-IV Examination July 2010

Subject code: 345503

Subject Name: Plant Equipment Maintenance & Erection

Date: 07/ 07 / 2010

Time: 10:30am-1:00pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of only simple numerical Calculator is permissible.

- Q.1** (a) Give list of seven rotary and seven static equipments used in a plant. **07**
Explain application of heat exchanger with neat sketch.
- (b) Prepare table showing symbols, functions and applications of seven types of valves. **07**
- Q.2** (a) Prepare classification of compressors and explain any one type with neat sketch, special features, its working and applications. **07**
- (b) Differentiate between Fans and Blowers with neat sketches. **07**
- OR**
- (b) Draw neat sketch, state functions and applications of Expansion joint **07**
- Q.3** (a) Draw schematic diagram of thermal power plant and state functions of each machinery and equipment of it. **07**
- (b) Give names of different types of maintenance and differentiate between Break-down and Preventive maintenance. **07**
- OR**
- Q.3** (a) Draw schematic diagram of Diesel power plant and state functions of each machinery and equipment of it. **07**
- (b) Explain T.P.M, C.B.M and C.M. with regard to maintenance. **07**
- Q.4** (a) Give names, state causes and describe prevention methods of different types of Wear. **07**
- (b) Describe procedural steps of using of String and Spirit level with neat sketches and state their applications giving examples. **07**
- OR**
- Q. 4** (a) Give classification and applications of different Tools and Equipments used for erection/ installation work. **07**
- (b) Describe procedural steps of using of Plumb-bob and water-tube with neat sketches and state their applications giving examples. **07**
- Q.5** (a) State different types of pressure testing methods and describe any one type with neat sketch. **07**
- (b) Define , classify and state functions of foundation. **07**
- OR**
- Q.5** (a) Draw neat sketches of 7 pipe fittings/elements and explain its uses **07**
- (b) Describe at least seven design consideration of foundation. **07**
