

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Semester -IV Remedial Examination December - 2010

Subject code: 345503

Subject Name: Plant Equipment maintenance & Erection

Date: 14 /12 /2010

Time: 02.30 pm – 05.00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- | | | | |
|-------------|-----|--|-----------|
| Q.1 | (a) | Classify different types of valves. Explain function and element of any THREE valves with neat sketch. | 07 |
| | (b) | Compare centrifugal and Reciprocating Pump with neat sketch | 07 |
| Q.2 | (a) | Classify the compressor. Show elements of centrifugal compressor with neat sketch. Explain installation procedure of compressor. | 07 |
| | (b) | Explain different types, Construction and Application of fans | 07 |
| | | OR | |
| | (b) | Explain different properties of Fluids | 07 |
| Q.3 | (a) | Explain different piping elements with neat sketch. | 07 |
| | (b) | List different types of power plants. Explain thermal power plant with schematic diagram. | 07 |
| | | OR | |
| Q.3 | (a) | List the nuclear power plant machinery & equipment and explain its application. | 07 |
| | (b) | Define the TEN types of maintenance and compare the same. | 07 |
| Q.4 | (a) | Give primary and secondary function of maintenance department. | 07 |
| | (b) | Explain the maintenance procedure of three jaw chuck tool. | 07 |
| | | OR | |
| Q. 4 | (a) | Explain metal spraying method and welding as a recovery method. | 07 |
| | (b) | Explain preventive maintenance. | 07 |
| Q.5 | (a) | Give definition, principle, advantage,& limitation of T.P.M. | 07 |
| | (b) | Explain the basic concept of tribology. | 07 |
| | | OR | |
| Q.5 | (a) | Explain erection and installation of process equipment. | 07 |
| | (b) | Explain classification and function of foundation with neat sketch | 07 |
