

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Semester - V Remedial Examination June – 2011

Subject code: 350504

Subject Name: Utilities & Instrumentation in Chemical Plant

Date: 24 /06 /2011

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.
4. English version is Authentic

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|-------------|--|-----------|
| Q.1 | (a) Explain : Bi-metallic thermometer. | 07 |
| | (b) List various types of pressure gauges.Explain any one. | 07 |
| Q.2 | (a) List various types of level measuring instruments.Explain any one. | 07 |
| | (b) Explain : Instrument to measure humidity. | 07 |
| | OR | |
| | (b) Explain instrument to measure density. | 07 |
| Q.3 | (a) Explain : Ion exchange method. | 07 |
| | (b) Write short note on compressors. | 07 |
| | OR | |
| Q.3 | (a) Explain : Static characteristics. | 07 |
| | (b) Describe radiation pyrometer. | 07 |
| Q.4 | (a) Write short note on DCS. | 07 |
| | (b) Write short note on Refrigeration. | 07 |
| | OR | |
| Q. 4 | (a) Write properties of a good refrigerant. | 07 |
| | (b) Write short note on PLC. | 07 |
| Q.5 | (a) Explain : Lancashire boiler | 07 |
| | (b) Describe different methods of water softening. | 07 |
| | OR | |
| Q.5 | (a) Write short on utilities. | 07 |
| | (b) Write short note on boilers, | 07 |
