GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-V • EXAMINATION – SUMMER • 2014

| | | ject Code: X 50903 ject Name: Power Electronics-II | Date: 31-05-2014 | |
|-----|------------|---|------------------|----------|
| | Tim | actions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. | Total Marks: 70 | |
| Q.1 | (a) (b) | Write a short note on voltage source inverter. Write a short note on series inverter with necessary wa | | 07 07 |
| Q.2 | (a) (b) | Write a short note on 3-phase bridge inverter with suit Explain PWM techniques with suitable examples. OR | e | 07 07 |
| | (b) | Write a short note on PWM half bridge inverter | | 07 |
| Q.3 | (a) (b) | Write a short note on single phase full wave voltage controller with R-L load. Write a short note on 3-phase full wave voltage controller with R load. OR | | 07 07 |
| Q.3 | (a) (b) | Write a short note on basic principle of 1-phase cycloconverter. Describe load commutated cycloconverter. | | 07 07 |
| Q.4 | (a) (b) | Write a short note on v/f control method for induction Describe slip power recovery method for induction me OR | | 07 07 |
| Q.4 | (a) (b) | Write a short note on variable speed drives for synchro How to control speed of synchronous motor drive using | | 07 07 |
| Q.5 | (a) (b) | Write a short note on induction heating. Write a short note on working of electronic lamp balla OR | | 07 07 |
| Q.5 | (a) (b) | Write a short note on static VAR compensators. Write a short note on DC static switch. | | 07 07 |
