| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER-V • EXAMINATION - SUMMER • 2014

| Subject Code: X 51103 | Date: 31-05-2014 |
|-----------------------|------------------|
| | |

Subject Name: Audio Video Engineering

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) | Define the following terms: (1) Image continuity (2)Interlaced scanning (3)Picture resolution (4)Brightness (5) Contrast (6) Hue (7)Saturation | 07 |
|------------|------------|--|----------|
| | (b) | Explain architectural acoustics in detail | 07 |
| Q.2 | (a) (b) | Give the Requirements and Importance of Preamplifiers in detail Explain mental process in detail | 07 07 |
| | | OR | |
| | (b) | Explain digital filtering in detail | 07 |
| Q.3 | (a) (b) | Explain condenser microphone in detail Explain crossover networks in detail | 07 07 |
| | () | OR | |
| Q.3 | (a) (b) | Explain moving coil loudspeaker in detail Explain sound mixers in detail | 07 07 |
| Q.4 | (a) (b) | Explain TV camera in detail Explain positive and negative modulation in detail | 07 07 |
| | () | OR | |
| Q.4 | (a) (b) | Explain Television transmitter in detail Explain interference suffered by TV channels | 07 07 |
| Q.5 | (a) | Draw detailed basic block diagram of a monochrome receiver in detail | 07 |
| | (b) | Explain vectroscope in detail | 07 |
| 0.5 | (.) | OR | 0= |
| Q.5 | (a) | Explain plasma TV in detail | 07 |
| | (b) | Give detail comparison among NTSC, PAL and SECAM | 07 |
