

GUJARAT TECHNOLOGICAL UNIVERSITY**PDDC - SEMESTER-V • EXAMINATION – WINTER • 2014****Subject Code: X 51103****Date: 04-12-2014****Subject Name: Audio Video Engineering****Time: 10:30 am - 01:00 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) List the sound absorbent materials and explain each in brief. **07**
(b) Explain acoustic design of auditoriums in detail. **07**
- Q.2** (a) Explain Cross over network in detail. **07**
(b) Explain Voltage amplifier design in detail. **07**
- OR**
- (b) Explain Power amplifier classes in detail. **07**
- Q.3** (a) Explain digital filtering in detail. **07**
(b) Explain stereophony and multi-channel sound in detail. **07**
- OR**
- Q.3** (a) Explain magnetic recording in detail. **07**
(b) Explain moving coil microphone in detail. **07**
- Q.4** (a) Explain television transmitter with block diagram. **07**
(b) Explain encoding of color-difference signals. **07**
- OR**
- Q.4** (a) Explain merits and demerits of negative modulation. **07**
(b) Explain vectroscope in detail. **07**
- Q.5** (a) Explain LCD, Plasma and LED display technology in detail. **07**
(b) Explain NTSC color system in detail. **07**
- OR**
- Q.5** (a) Explain RF tuner in detail. **07**
(b) Explain interference suffered by carrier signals in detail. **07**
