

**GUJARAT TECHNOLOGICAL UNIVERSITY****PDDC - SEMESTER-V • EXAMINATION – WINTER 2013****Subject Code: X 51103****Date: 09-12-2013****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) Write short note on following : **07**  
1) Image continuity for Television system  
2) Geometric form and Aspect ratio for Television system  
(b) Explain rotary head digital recorders **07**
- Q.2** (a) List the components of public address system and explain each in brief **07**  
(b) Explain carbon microphone in detail **07**  
**OR**  
(b) Explain moving coil cone type loudspeaker in detail **07**
- Q.3** (a) Explain importance of baffles and enclosures in loudspeakers in detail **07**  
(b) Explain each element of picture tube with diagram **07**  
**OR**
- Q.3** (a) How definite flicker of light problem is solved with interlaced scanning and explain how to achieve interlaced scanning in detail **07**  
(b) Explain equalizing pulses with waveforms **07**
- Q.4** (a) Give the advantage of two color difference signals over three color signals transmission and explain production of color difference signals with diagram **07**  
(b) Give the merits and demerits of negative modulation and explain each in brief **07**  
**OR**
- Q.4** (a) List the merits of frequency modulation and explain each in brief **07**  
(b) Explain RF tuner operation in TV receiver with diagram **07**
- Q.5** (a) Explain NTSC color system in detail **07**  
(b) Explain sweep generator in detail **07**  
**OR**
- Q.5** (a) Write short note on following: **07**  
1) Nonlinear editing  
2) 4:3 Vs 16:9 for digital video  
(b) List the display technologies and explain each in brief **07**

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