

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2020****Subject Code:2151101****Date:29/01/2021****Subject Name:Audio Video Systems****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define following terms : **03**
(1) Timbre (2) Pitch (3) Loudness
- (b) Draw and explain Composite Video Signal. **04**
- (c) List out the types of microphones and explain any one in detail. **07**
- Q.2** (a) What is optical recording? List out the types of optical recording. **03**
- (b) Explain in brief about LCD matrix types. **04**
- (c) Write short note on LED TV. **07**
- Q.3** (a) Define following terms : **03**
(1) Pixel (2) Resolution (3) Hue.
- (b) Explain in brief Digital Audio Broadcasting. **04**
- (c) Explain Interlaced scanning in detail and justify that for interlaced scanning total no. of lines in any TV system must be odd. **07**
- Q.4** (a) Compare JPEG and MPEG **03**
- (b) Describe Horizontal and Vertical resolution. **04**
- (c) Explain Digital Television Receiver with block diagram. **07**
- Q.5** (a) Compare video CD and DVD. **03**
- (b) Write short note on 3D television. **04**
- (c) Write short note on DTH. **07**
- Q.6** (a) Explain in brief about stereo sound in television. **03**
- (b) Explain Digital Light Processing projection system. **04**
- (c) Write short note on HDTV and EDTV. **07**
- Q.7** (a) Write brief note on OLED. **03**
- (b) Compare Front projection and Rear projection system. **04**
- (c) Write short note on PA system. **07**
- Q.8** (a) Write the difference between LED Backlit and Backlit LCD display. **03**
- (b) Explain in brief about troubleshooting of PA system. **04**
- (c) Write short note on PLASMA TV. **07**
