

Class Test- II
Time: 1 Hour

GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI
(An Autonomous Institute of Govt. Of Maharashtra)

Subject: Audio and Video Engineering

Date: 12/03/2015

Course Code: ETU602

Marks: 15

Solve the following.

- Q.1 What do you understand by interlaced scanning? Show that it reduces flicker and conserves bandwidth. 4 M
- Q.2 Draw and Explain the block diagram of a monochrome television transmitter. 4 M
- Q.3 Sketch and discuss the composite video signal. Label on it (i) front porch, (ii) horizontal Sync Pulse, (iii) back porch and (iv) active line periods. Explain why the blanking pulses are not used as sync pulses. 4M
- Q.4 For digital satellite transmission, video and audio signals are first quantized and then converted to equivalent binary code. Draw the block diagram of a 'PAM' type of encoder and explain it. 3M

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Solve any THREE

- Q.1 What do you understand by interlaced scanning, active and blanking periods in horizontal and vertical scanning? Give periods of nominal, active, and retrace intervals of horizontal and vertical scanning as obtained in the 625 line system.
- Q.2 List the merits of digital TV receivers that are not achievable in analog receiver
- Q.3 Explain how communication satellites orbiting around the earth enable transmission of television signals over a long distances.

OR

- Q.3 For digital satellite transmission, video and audio signals are first quantized and then converted to equivalent binary code. Draw the block diagram of a 'PAM' type of encoder and explain
- Q.4 Draw and explain elementary block diagram of monochrome television transmitter and receiver.

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Solve any Three.

- Q.1 Justify the choice of 625 lines for TV transmission. What do you understand by interlaced scanning? How is the illusion of continuity created in television pictures?
- Q.2 Draw a basic block diagram of an UP-LINK set-up and explain how the signals are compressed, packetized and multiplex before modulation and transmission.
- Q.3 Draw block diagram of Television Transmitter and receiver. Explain the function of each block.
- Q.4 Sketch and explain the composite signal waveform. Also describe luminance and hue as applied to colour pictures.