

S.B. Roll. No.....

AUDIO VIDEO SYSTEMS
5th Exam/ECE/2615/Dec'22
(For 2018 Batch Onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. Do as directed.

15x1=15

- a. A loudspeaker converts _____ signal into _____
- b. Aspect ratio in television is _____
- c. Primary colors are _____
- d. Cassettes tape has a coating of _____
- e. The audible frequency range for humans is _____
- f. DTH stands for _____
- g. Write two advantages of CD.
- h. Define hue.
- i. Equalizing pulses are sent during _____
- j. What is CRT?
- k. What do you mean by persistence of vision?
- l. CATV stands for _____
- m. Define the term line blanking period.
- n. LCD stands for _____
- o. Tweeter is meant for _____ frequencies.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- i. What do you mean by crossover network? Explain crossover networks.
- ii. Explain the construction and working of moving coil microphone with the help of diagram.
- iii. Give comparison of NTSC, PAL and SECAM systems.
- iv. Discuss the need of equalizing pulses.
- v. What is DTH? How does it work?
- vi. Differences between progressive and interlaced scanning.
- vii. Compare LCD and LED.
- viii. Explain the working of microwave oven.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- a. Explain the monochrome picture tube with its construction and working.
- b. Explain with diagram the working of basic TV communication system.
- c. Write short note on the following. (any two)
i) Compact disc b) MPEG-x format c) Equalizing pulses d) plasma TV
- d. Explain the construction and working principle of vidicon camera tube.
- e. What is CCTV? Discuss its working in details.