

SEAT No. _____



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SARDAR PATEL UNIVERSITY. V.V. NAGER.

T.Y.B.Sc. Sem-V. ELECTRONICS EXAMINATION,

SUB. CODE:-US05CELE24, ANALOG COMMUNICATION.

DATE:14/11/2022, Monday TIME:-10.00AM to 1:00PM

MARKS-70

Q-1 Choose correct answer

[10]

1. _____ is not basic function of Radio receiver.
(A) Reception (C) Selection
(B) Detection. (D) None of these
2. Retrace line in T.V. is not seen due to _____ pulse.
(A) Sync (C) Equalising.
(B) Blanking (D) None of these
3. _____ is the value of Intermediate-frequency in Radio receiver.
(A) 455 KHz (C) 1000 Hz
(B) 0000 KHz (D) None of these
4. Coaxial cable has _____ ohms input impedence.
(A) 008 (C) 75
(B) 0987 (D) None of these
5. In T.V. problem of flicker is solved by _____ scanning.
(A) Interlaced (C) Rectangular
(B) circular (D) None of these
6. Image orthicon tube works on the principle of _____.
(A) Photoconduction (C) Photoemission
(B) rectification (D) None of these
7. Vidicon tube works on the principle of _____.
(A) Photoemission (C) Photoconduction
(B) rectification (D) None of these
8. In Broad cast T.V. picture signal in _____ modulated
(A) Frequency. (C) absent.
(B) Amplituide (D) None of these
9. In Broad cast T.V. Sound signal in _____ modulated.
(A) absent (C) Frequency
(B) Amplitude. (D) None of these
10. In two stage IF amplifier _____ IF transformers are used in radio receiver..
(A) One (C) Two
(B).Three (D) None of these.

Q-2 Short answer type question. (any ten)

[20]

- 1 List basic function of A.M. Radio receiver.
- 2 Define Aspect Ratio.
- 3 Draw the symmetric diagram of frequency mixer and explain in brief.
- 4 Draw the diagram of balun and give its importance.
- 5 What is A.F.C. Explain its importance
- 6 Explain FSK drawing diagram.
- 7 Draw the circuit of detector section .
- 8 What is interlaced scanning.
- 9 What is function of T.V. camera tubes.
- 10 Draw the diagram of I.F. trap & explain its importance.
- 11 Explain function performed by R.F. tuner.
- 12 Explain fidelity in Radio receiver.

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(P.T.O.)

Q.3.. Draw the block diagram of super-heterodyne radio receiver and explain function of each block. 10

OR

Q.3.(a) Give classification of radio receiver in detail. 7

Q.3.(b) Explain simplicity of operation in Broad cast receivers. 3

Q.4(a). Draw the neat circuit of R.F. Amplifier and explain in brief. 7

Q.4(b). list advantages of R.F. amplifier . 3

OR

Q.4(a) Draw the neat circuit of Converter and explain in brief. 7

Q.4(b) What is delayed AVC, give its advantage. 3

Q.5. Write a note on composite video signal. 10

OR

Q.5 List different types of camera tubes and Explain construction of any one drawing diagram. 10

Q6 Draw the Block diagram of B/W T.V. Receiver and label it. 10

OR

Q.6 List different types of inter-stage coupling in T.V. and explain any two in detail. 10

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