

V.P. & R.P.T.P. SCIENCE COLLEGE

T.Y.B.Sc. (Fifth semester)

Electronics, US05CELE06

Analog Communication

Internal Test

Monday, 7/10/2013

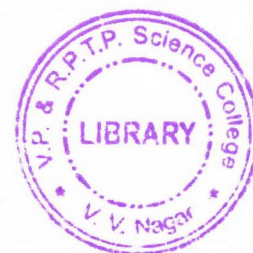
Time: - 3:30 PM To 5:00 PM

Marks: - 30

Q.1 Choose the correct answer (Attempt all)

(6)

- 1 Broad cast type AM receivers mainly operates in the _____ frequency band.
(a) Micro wave. (c) Medium wave.
(b) VHF. (d) UHF.
- 2 Typically what is the bandwidth of the IF amplifier stage in AM radio receiver?
(a) 10 KHz. (c) 200 KHz.
(b) 20 KHz. (d) 5 KHz.
- 3 The standard values of the Intermediate Frequency is ...
(a) 456 KHz. (c) 100 KHz.
(b) 1000 KHz. (d) 564 KHz.
- 4 Hawling in the reproduced audio signals is due to...
(a) Positive feedback in IF amp. (c) Fading in received signals.
(b) Variation in supply voltage. (d) None of above.
- 5 The Image orthicon camera tube operates on the principle of
(a) Photo conduction. (c) Photo emission.
(b) Photo graphic. (d) Photo lithography.
- 6 The aspect ratio in TV communication is always adjusted to
(a) 4:3 (c) 3:4
(b) 16:9 (d) 9:16



Q2 Answer the following questions (Any three)

(6)

- (a) Write a note on the classification of the Radio receiver.
- (b) List the main functions performed by the broadcast radio receiver and explain them.
- (c) What is AFC? Explain the principle of AFC.
- (d) Draw the circuit of detector stage and explain it.
- (e) What is aspect ratio?
- (f) List the limitations of Rectangular switching.

Q3 Explain Super heterodyne Radio receiver with the help of block diagram.

(6)

OR

Q3 Draw the circuit of TRF receiver and explain it.

(6)

Q4 Draw the circuit of the RF amplifier, explain it.

(6)

OR

Q4 Explain the principle of AGC and explain the working of the Simple AGC.

(6)

Q5 Draw the wave forms and discuss the standards of the Horizontal Blanking and Synchronizing pulses.

(6)

OR

Q5 Explain the principle of Vidicon camera tube and give its constructional details.

(6)