

(DEC 326)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the end of Third Year)

ELECTRONICS & COMMUNICATIONS

Paper - VI : Communication Systems

Time : 3 Hours

Maximum Marks : 75

Answer question No.1 compulsory

(15)

Answer ONE question from each unit

(4 × 15 = 60)

- 1) a) What is meant by ganged tuning?
- b) Define heterodying.
- c) Define fading.
- d) Define image freq.
- e) What are the disadvantages in TRF receiver?
- f) What is time division switching?
- g) Classify different switching systems.
- h) Draw the diagram of telephone circuit.
- i) What are primary colours?
- j) What is VSB?
- k) What is scanning system.

UNIT - I

- 2) Explain the receiver characteristics in detail.

OR

- 3) a) Draw & explain the high level AM transmitter.
- b) Draw & explain the block diagram Representation of super heterodyne receiver in detail.

UNIT - II

- 4) a) Explain about stored program control in electronic space division switching system.
b) Explain about distributed SPC.

OR

- 5) a) Explain about three stage combination switching.
b) Explain about time division time switching in detail.

UNIT - III

- 6) a) Explain a block diagram of broadcast TV transmitter.
b) Explain the need of pre equalizing & post equalizing pulses with neat sketch.

OR

- 7) a) Explain the block diagram of broadcast TV receiver.
b) Explain the operation of plumbicon tube with neat diagram.

UNIT - IV

- 8) a) Distinguish b/w additive mixing & subtractive mixing.
b) Explain the working of Triticon picture tube.

OR

- 9) a) Explain the PAL system.
b) Explain the following :
i) Digital TV
ii) Cable television.

φφφ