Model Question Paper

Communication systems - Part V

12th Standard

Physics

Reg.No. : | | | | | | |

I.Answer all questions.

II.Use Blue pen only.

Time : 01:00:00 Hrs

Total Marks : 80

Section-A

5 x 1 = 5

1) The bandwidth after amplitude modulation having signal frequency of 5kHz is

   (a) 25 kHz (b) 10 kHz (c) 2.5 kHz (d) 20 kHz

2) To avoid flicker in scanning the number of times each frame scanned is

   (a) 4 (b) 3 (c) 2 (d) 1

3) The frequency deviation in a FM signal having resting frequency of 105 MHz and the modulated wave's frequency of 105.09 MHz is

   (a) 9 MHz (b) 90 kHz (c) 99 MHz (d) 9 kHz

4) In FM process, frequency of carrier wave is changed according to_____of the signal

   (a) wavelength (b) intensity (c) phase (d) frequency

5) The propagation used to transmit all medium wave signal is

   (a) Space wave (b) Ground wave (c) Sky wave (d) High wave

Section-B

5 x 3 = 15

6) What does scanning mean?

7) Define radar.

8) what is a modem?

9) Wha are the types of wire and cable used in data communication

10) What is fax?

Section-C

6 x 10 = 60

11) With the help of a functional block diagram explain the operation of a super heterodyne AM receiver.

12) With the help of a block diagram, explain the operation of RADAR.

13) Explain the construction and working of Monochrome picture tube.

14) Explain the satelite communication system.

15) a) With the help of a block diagram, explain the function of RADAR system.

(OR)

b) With the help of a functional block diagram, explain the operation of a superheterodyne AM receiver.

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