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221043

4th Sem./ ECE, ECE
(For Speech and Hearing Impaired)
Subject : Communication Systems

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 In communication Systems, AGC stands for (CO1)
a) Asynchronous Gain circuit
b) Asynchronous Gain Control
c) Automatic Gain Circuit
d) Automatic Gain Control

Q.2 In FM transmitters, the modulating signal modulates the carrier with respect to its (CO2)
a) Amplitude b) Frequency
c) Phase d) None of these

Q.3 Frequency range of VHF (CO3)
a) 300-3000 KHz b) 3-30 MHz
c) 30-300 MHz d) 300-3000 MHZ

Q.4 Speed of light is (CO4)
a) 3×10^8 m/s b) 3×10^8 m/h
c) 3×10^8 Km/s d) 3×10^8 Km/h

Q.5 A VSAT comprises of (CO5)

a) Dish antenna b) Transceiver

c) Satellite router d) All of these

Q.6 VSAT is used for (CO5)

a) Internet service providers

b) Mobile Phone base actions

c) Broadband direct to home

d) All of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Speed of light = frequency X _____. (CO1)

Q.8 The selectivity of a receiver is its ability to reject unwanted signals. (True/False) (CO2)

Q.9 Low frequency (LF) is used for Radar Navigation. (True/False) (CO3)

Q.10 Perigee is farthest point from earth reached by the satellite orbiting it. (True/False) (CO4)

Q.11 The skip distance _____ (Decreases/increases) with frequency. (CO4)

Q.12 Ground wave propagation is also referred to surface wave propagation. (True/False) (CO5)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write advantages of Armstrong FM transmitter. (CO1)

Q.14 Explain the working of reactance FM transmitter. (CO1)

Q.15 Explain the concept of delayed AGC. (CO2)

Q.16 Define (CO2)

a) Fidelity b) Sensitivity

Q.17 Explain Loop antenna. (CO3)

Q.18 Write a short note on "Electromagnetic Spectrum". (CO3)

Q.19 Explain Maximum usable frequency. (CO4)

Q.20 Explain Ionosphere and its layers. (CO4)

Q.21 Draw block diagram of satellite communication link. (CO5)

Q.22 Differentiate between active and passive satellites. (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Draw and Explain block diagram of Amtransmitter. (CO1)

Q.24 Draw and Explain block diagram of FM receiver. (CO2)

Q.25 Explain Ground wave propagation. Write any two applications of Ground wave propagation. (CO4)