

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Communication System

Course Code - GEEC201

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Answer all the questions. Each question carry one mark.

9. 1.Demodulation of DSB-SC signal requires

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- an envelope detector
- an integrator
- a synchronous detector
- a discriminator

10. 2.In TV telecast, the sound signal is modulated in

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VSB

SSB

AM

FM

11. 3.Regenerative repeaters can be used in

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analog communication system only

digital communication system only

analog and digital communication systems

none of these

12. 4.The bit rate of a digital communication system is 34 Mbps. The modulation scheme is QPSK, the bout rate of the system is

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68 Mbps

34 Mbps

17 Mbps

85 Mbps

13. 5.The anti-aliasing is basically a

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- Band pass filter used for band limiting
- low pass filter used as band limiting filter
- High pass filter used as band limiting filter
- none of these

14. 6.The signal to quantization noise ratio in n bit PCM system

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- is independent of value n
- increase with increasing value of n
- depends upon the sampling frequency employed
- decreases with the increasing value of n

15. 7.Radio signals are made up of

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- voltage and current
- electrons and protons
- electric and magnetic field
- none of these

16. 8.A special AM broadcasting transmitter radiates 10 kW when the depth of modulation is 60%. The carrier power required is

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- 9 kW
- 7.8 kW
- 8.47 kW
- 9.5 kW

17. 9.In digital transmission, the modulation technique that requires minimum bandwidth is

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- DM
- PCM
- DPCM
- PAM

18. 10.Thermal noise is also called as

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- johnson noise
- avalanche noise
- shot noise
- flicker noise

19. 11.The spectrum of a signal extends from 200 Hz to 3200 Hz. This signal is

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- a low pass signal
- a high pass signal
- a band pass signal
- a band stop signal

20. 12.The sampling process converts

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- continuous time signal into continuous time signal
- continuous time signal into a discrete time signal
- discrete time signal into a continuous time signal
- discrete time signal into discrete time signal

21. 13.Which multiplexing technique transmits digital signal?

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- FDM
- TDM
- WDM
- FDM and TDM

22. 14.If the deviation is 75 kHz and maximum modulating frequency is 5 kHz, what is the bandwidth of an FM wave?

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- 80 kHz
- 160 kHz
- 40 kHz
- 320 kHz

23. 15.Which of the following is not a major communication medium?

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- free space
- water
- wires
- fiber optic cable

24. 16.One of the serious disadvantages of FM transmission is its

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- high static noise
- limited line of sight range
- expensive equipment
- adjacent channel interference

25. 17. The broadcasting frequency range used in frequency modulator is

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- 30 MHz to 300 MHz
- 88 MHz to 108 MHz
- 3 MHz to 30 MHz
- 1 MHz to 3 MHz

26. 18. The length of the antenna to transmit a signal must be at least

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- 1/3 wavelength
- 1/4 wavelength
- 2/3 wavelength
- 2/4 wavelength

27. 19. Which of the following modulation is analog in nature

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- PCM
- DPCM
- DM
- none of these

28. 20. In frequency modulation

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- the frequency of the carrier remains constant
- the amplitude of carrier remains constant
- the amplitude of the carrier wave is varied
- the frequency of the signal is made equal to the carrier frequency

29. 21. Armstrong F. M. transmitter performs frequency multiplication in stages

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- to increase the overall S/N ratio
- to reduce bandwidth
- to find the desired value of carrier frequency as well as frequency deviation
- for convenience

30. 22. Major advantage of Armstrong modulator is that

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- it is capable to producing WBFM signals
- the centre frequency (carrier frequency when unmodulated) is extremely stable
- a large depth of modulation can be achieved
- none of these

31. 23. In phase modulation, the frequency deviation is

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- independent of the modulating signal frequency
- increasingly proportional to the modulating signal frequency
- directly proportional to the modulating signal frequency
- inversely proportional to the square root of the modulating frequency

32. 24. The positive RF peaks of an AM voltage rise to a maximum value of 12 volt and drop to a minimum value of 4v. The modulation index assuming single tone modulation is

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- 3
- 44256
- 44287
- 44228

33. 25. For which of the following systems, the signal to noise ratio is the highest?

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- PAM
- PWM
- PPM
- PAM and PWM

34. 26.What are the three steps in generating PCM in the correct sequence?

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- sampling, quantizing & encoding
- encoding, sampling & quantizing
- sampling, encoding & quantizing
- quantizing, sampling & encoding

35. 27.In a certain system, the signal power is 13 dB and noise power is -1 dB. The SNR will be

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- 14 dB
- 13 dB
- 12dB
- 13 dB

36. 28.A narrowband noise shows

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- amplitude modulation only
- frequency modulation only
- both AM and FM
- none of these

37. 29. Which of the following is not the modulation type for modem specifications?

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VSB

PSK

FSK

ASK

38. 30. Thermal noise is independent of

Mark only one oval.

bandwidth

temperature

center frequency

Boltzmann constant

39. 31. Which of the following modulated signals can be detected by an envelope detector?

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DSB-SC

DSB-FC

FM

SSB-SC

40. 32. A carrier is simultaneously modulated by two sine waves with modulation indices of 0.3 and 0.4; the total modulation index is

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- 0.707
- 0.5
- 1
- none of these

41. 33. FM signal can be converted into AM signal using

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- frequency discriminator
- square law detector
- slope detector
- none of these

42. 34. The most common modulation system used for telegraphy is

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- frequency-shift keying
- two-tone modulation
- pulse-code modulation
- single-tone modulation

43. 35. What is the ratio of modulating power to total power at 100 percent modulation?

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- 0.04375
- 0.043056
- 0.085417
- none of these

44. 36. Ring modulator is generally used for

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- generating SSB-SC signal
- generating DSB-FC signal
- generating DSB-SC signal
- none of these

45. 37. Vestigial sideband modulation is normally used for

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- HF point-to-point communications
- monoaural broadcasting
- TV broadcasting
- stereo broadcasting

46. 38. Thermal noise power is proportional to

Mark only one oval.

B

$\hat{a}^{\text{š}}B$

$1/B^2$

B^2

47. 39. Number of sidebands in FM signal

Mark only one oval.

2

1

zero

none of these

48. 40. Which of the following is considered as an AM signal?

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BPSK

DPSK

Differential encoded PSK

QPSK

49. 41. A carrier of 100 W is amplitude modulated to the depth of 40%. The total transmitted power is

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- 116 W
- 112 W
- 108 W
- 118 W

50. 42. Shot noise is produced by

Mark only one oval.

- Electrons
- Photons
- Electrons & Photons
- none of these

51. [43.AM](#) broadcast station transmits modulating frequency upto 6KHz. If transmitting frequency is 810KHz, then maximum and lower sidebands are _____.

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- 816KHz and 804KHz
- 826KHz and 804KHz
- 916KHz and 904KHz
- 822KHz and 816KHz

52. 44.Data transmitted for a given amount of time is called

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- Noise
- Power
- Frequency
- Bandwidth

53. 45.Why a sinusoidal signal is considered analog?

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- It moves in both positive and negative direction
- It is positive for one half cycle
- It is negative for one half cycle
- It has infinite number of amplitudes in the range of values of the independent variable

54. 46.What is Demodulation?

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- Process of varying one or more properties of a periodic waveform
- Recovering information from modulated signal
- Process of mixing a signal with a sinusoid to produce a new signal
- Involvement of noise

55. 47. Medium which sends information from source to receiver is called

Mark only one oval.

- Transmitter
- Transducer
- Loudspeaker
- Channel

56. 48. Cell phones send information in form of

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- microwaves
- electrical signals
- infrared waves
- radio waves

57. 49. Which device is used for tuning the receiver according to incoming signal (especially in TV)?

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- Low pass filter
- High pass filter
- Zener diode
- Varactor diode

58. 50. Square Law modulators are

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- used for frequency modulation
- used for pulse width modulation
- used for amplitude modulation
- used for phase modulation

59. 51. The threshold effect is more dominant in

Mark only one oval.

- AM
- FM
- PM
- PWM

60. 52. An AM wave is $E_{AM}(t) = (1 + 0.12\cos 1014t + 0.05\cos 103t)\cos 106t$. The resultant modulation index is _____.

Mark only one oval.

- 0.4
- 0.3
- 0.13
- 0.14

61. 53.A narrow band FM has_____.

Mark only one oval.

- Two sidebands
- Equal amplitude sidebands
- Both sidebands with same phase difference with the carrier
- Does not show amplitude variations

62. 54.Two carrier signals 40MHz are frequency modulated by 4KHz signal such that the bandwidth is same in both the cases. The peak deviation is in the ratio of _____.

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- 0.044444
- 0.043056
- 0.042361
- 0.084028

63. 55.The Nyquist frequency(f_s) and baseband signal frequency (f_m) as per sampling theorem are related by

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- $f_s=f_m$
- $f_s=2f_m$
- $f_s>2f_m$
- $f_s<2f_m$

64. 56. In a PCM system each quantization level is encoded into 8 bits. The signal-to-quantization noise ratio is equal to _____.

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- 48dB
- 64dB
- 128dB
- 256dB

65. 57. Demodulation of PAM signal is done with _____.

Mark only one oval.

- LPF
- HPF
- BPF
- Schmitt Trigger

66. 58. Unlike AM, the biggest advantages of PCM is _____.

Mark only one oval.

- Larger noise
- Larger bandwidth
- Incompatibility with TDM system
- Inability to handle analog signals

67. 59.The signal-to-quantization noise ratio in PCM depends upon:

Mark only one oval.

- Message signal bandwidth
- Sampling rate
- Number of quantisation levels
- None of these

68. 60.In a PCM system, if the numbers of quantization levels are 16 and maximum signal frequency is 4KHz, the transmission bit rate is_____.

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- 10kbps
- 12kbps
- 15kbps
- 16kbps

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