

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

Course Name - –Principles of Communication Engineering

Course Code - DECE401

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Answer all the questions. Each question carry one mark.

9. 1. The main advantage of frequency modulation over amplitude modulation

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- that there will be no distortion
- that the complete information is contained in the side bands
- that it uses a wider band of frequencies
- the elimination of noises

10. 2. Which of the following analog modulation scheme requires the minimum transmitted power and minimum channel bandwidth?

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- VSB
- DSB-SC
- SSB
- AM

11. 3.

The sideband of a narrow band FM signal is equal to

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f_m

Option 1

$2f_m$

Option 2

δ

Option 3

2δ

Option 4

12. 4. Communication is the process of

Mark only one oval.

- keeping in touch
- broadcasting
- exchanging information
- entertainment by electronics

13. 5. The advantage of AM with full carrier is

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- less bandwidth
- less power requirement
- simple receiver circuit
- None

14. 6. For faithful broadcasting of high quality music, more suitable is

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- PCM
- AM
- FM
- PM

15. 7. IF value for a FM receiver is

Mark only one oval.

- 88 MHz
- 100 MHz
- 1.07 MHz
- None

16. 8. If signal frequency is 200 kHz then what will be the sampling frequency?

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- 300 kHz
- 400 kHz
- 500 kHz
- both b and c

17. 9. In an AM signal when the modulation index is one, the maximum power P_t (where P_c is the carrier power) is equal to

Mark only one oval.

- P_c
- $1.5 P_c$
- $2 P_c$
- $2.5 P_c$

18. 10. In case of AM, increase in modulating signal amplitude leads to

Mark only one oval.

- increase in modulated signal power
- decrease in modulated signal power
- no change
- None

19. 11. Number of sidebands of a frequency modulated wave is

Mark only one oval.

- 2
- 4
- 1
- infinite

20. 12. Pre-emphasis in transmitter is to boost

Mark only one oval.

- Low frequency
- High frequency
- Medium frequency
- None

21. 13. In an AM wave the total power content is 600 Watt and that of each sideband is 75 Watt. The modulation index is

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- 0.535
- 0.607
- 0.8159999999999999
- 1

22. 14. The ratio detector is a/an

Mark only one oval.

- AM detector
- FM detector
- photo detector
- None of these

23. 15. Local oscillator in superheterodyne receiver is used to shift the frequency to the

Mark only one oval.

- greater frequency
- lesser frequency
- intermediate frequency
- None of these

24. 16. Which one has the highest bandwidth

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- DSB
- SSB
- VSB
- DSB-SC

25. 17. Pre-emphasis and de-emphasis is used to

Mark only one oval.

- Reduce noise
- Reduce BW
- Control error
- None

26. 18. In PCM encoding, quantization level varies as a function of

Mark only one oval.

- frequency
- amplitude
- square of frequency
- square of amplitude

27. 19. 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

28. 20. Under sampling leads to

Mark only one oval.

- Capture effect
- Aperture effect
- aliasing effect
- None of these

29. 21. Foster-Seeley discriminator is used for the detection of

Mark only one oval.

- FM signal
- AM signal
- PCM signals
- None

30. 22. Companding is used _____

Mark only one oval.

- to overcome quantizing noise in PCM
- in PCM transmitters, to allow amplitude limiting in the receivers
- to protect small signals in PCM from quantizing distortion
- in PCM receivers, to overcome impulse noise

31. 23. In AM the modulation index lies between

Mark only one oval.

-1 and 1

-1 and 1

0 and 1

0 and 1

1 and ∞

1 and ∞

$-\infty$ and ∞

$-\infty$ and ∞

32. 24. Limitations of AM modulation is/are-

Mark only one oval.

- noisy reception
- poor audio quality
- low transmission efficiency and small operating range
- all of these

33. 25. Regenerative repeaters can be used in

Mark only one oval.

- analog communication system only
- digital communication system only
- analog and digital communication systems
- none of these

34. 26. In SSB-FC, FC stands for

Mark only one oval.

- Suppressed carrier
- Selected carrier
- Full carrier
- None

35. 27. A PCM receiver must contain

Mark only one oval.

- mixer
- ratio detector
- AND gate
- None

36. 28.

In AM, the modulating frequency should always be

Mark only one oval.

greater than f_c

Option 1

lower than f_c

Option 2

equal to f_c

Option 3

none of these

none of these

37. 29. The main advantage of PCM system is

Mark only one oval.

- lower bandwidth
- lower power
- lower noise
- none of these

38. 30. PAM is an

Mark only one oval.

- analog pulse modulation
- digital pulse modulation
- binary pulse modulation
- None

39. 31. The sampling process converts

Mark only one oval.

- 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

40. 32. Modern telephone used

Mark only one oval.

- PM
- AM
- PCM
- PAM

41. 33. Which type of modulation is used in point to point mobile communication

Mark only one oval.

- amplitude modulation
- frequency modulation
- pulse amplitude modulation
- delta modulation

42. 34. Which one of the following is an indirect way of generating FM?

Mark only one oval.

- reactance FET modulator
- varactor diode modulator
- armstrong modulator
- reactance tube modulator

43. 35. In case of FM, increase in modulating signal amplitude leads to

Mark only one oval.

- increase in modulated signal power
- decrease in modulated signal power
- no change
- None

44. 36. What is the maximum deviation for wideband FM?

Mark only one oval.

- 75 kHz
- 25 kHz
- 75 Hz
- 25 Hz

45. 37. The pre-emphasis circuit provides extra noise immunity by

Mark only one oval.

- Boosting the bass frequencies
- Amplifying the higher audio frequencies
- Pre-amplifying the whole audio band
- Converting the phase modulation to FM

46. 38. Sensitivity of radio receiver is defined by

Mark only one oval.

- ability to receive very weak signal
- ability to reject unwanted signal
- ability to maintain constant gain
- none of these

47. 39. In superheterodyne receiver, the value of IF is

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- 435 kHz
- 455 kHz
- 475 kHz
- None of these

48. 40. Fourier series is useful for determining the frequency components of a

Mark only one oval.

- Aperiodic signal
- Periodic signal
- Infinite signal
- None

49. 41. The significant sidebands of FM are determined from

Mark only one oval.

- Fourier Transform
- Laplace transform
- Bessel function
- Odd function

50. 42. Modulation is primarily accomplished to-

Mark only one oval.

- produce side-bands
- mix two waves of different frequencies
- transmit-audio frequency signals over long distances
- improve transmission efficiency

51. 43. PCM is preferred to PAM because of its

Mark only one oval.

- resistance to quantizing error
- simplicity
- lower cost
- superior noise immunity

52. 44. In AM, the modulating frequency should always be

Mark only one oval.

- greater than f_c
- lower than f_c
- equal to f_c
- none of these

53. 45. Which of the following modulation is the 1st step of PCM

Mark only one oval.

- PAM
- PPM
- PWM
- None of these

54. 46. Which of the following is used for FM detection

Mark only one oval.

- Ratio detector
- Photo detector
- Diode detector
- None

55. 47. Sample and hold circuit is an essential component of

Mark only one oval.

- PCM system
- AM system
- FM system
- PM system

56. 48. Standard telephones receive their power from

Mark only one oval.

An internal AC power supply	A battery
<input type="radio"/> An internal AC power supply	<input type="radio"/> A battery
48 V _{ac} supplied by the telephone company	90 V _{ac} supplied by the telephone company
<input type="radio"/> Option 3	<input type="radio"/> Option 4

57. 49. ISDN stands for

Mark only one oval.

- Integrated service digital network
- International service digital network
- International system for digital network
- None of these

58. 50. In DM granular noise occurs when the modulating signal

Mark only one oval.

- increase rapidly
- remain constant
- decrease rapidly
- None of these

59. 51. The original signal is extracted from the sampled signal using a

Mark only one oval.

- Antialiasing filter
- Matched filter
- Notch filter
- Reconstruction filter

60. 52. Essential circuit for PAM generation is

Mark only one oval.

- balanced modulator
- class-C amplifier
- sample and hold circuit
- none

61. 53.

If f_m is the modulating frequency of an AM wave, the sideband frequencies of this wave are

Mark only one oval.

greater than f_m

Option 1

equal to f_m

Option 2

less than f_m

Option 3

none of these

none of these

62. 54. In commercial TV transmission in India picture and sound signals are modulated respectively as

Mark only one oval.

- VSB and FM
- VSB and VSB
- FM and VSB
- AM and FM

63. 55. If a signal band - limited fm Hz is sampled at a rate less than $2f_m$ the reconstructed signal will be

Mark only one oval.

- smaller in magnitude
- higher in magnitude
- have higher frequency suppressed
- distorted

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

Mark only one oval.

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

65. 57. In PCM, for greater number of quantization level, quantization noise will

Mark only one oval.

- increase
- decrease
- remain same
- None

66. 58.

In Fourier Transform the limit of integration is

Mark only one oval.

$-\infty$ to $+\infty$

$-\infty$ to $+\infty$

0 to $+\infty$

0 to $+\infty$

$-\infty$ to 0

$-\infty$ to 0

None Of These

None Of These

67. 59. The main source of noise in a communication system is

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- Channel
- Transmitter
- Receiver
- None of these

68. 60. PWM is used in

Mark only one oval.

- SMPS
- Inverter
- Amplifier
- oscillator

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