

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

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 source of noise in a communication system is

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- Channel
- Transmitter
- Receiver
- None of these

10. 2. A wavelength of 15 meters corresponds to a frequency of

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- 20 MHz
- 200 MHz
- 2000 MHz
- None of these

11. 3. Communication is the process of

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

12. 4. If a signal band - limited fmHz is sampled at a rate less than $2f_m$ the reconstructed signal will be

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

13. 5. The main advantage of PCM system is

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- lower bandwidth
- lower power
- lower noise
- None of these

14. 6. By employing modulation we can

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- translate frequency
- translate amplitude
- translate phase
- All of these

15. 7. In commercial TV transmission in India picture and sound signals are modulated respectively as

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

16. 8. When the modulation index becomes greater than 1 in case of AM the situation is called

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- extra modulation
- over modulation
- under modulation
- None of these

17. 9. Inter symbol interference is problem in

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- AM transmission
- FM transmission
- PCM transmission
- PM transmission

18. 10. Following is an example of an analog modulation

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- ADM
- PWM
- PSK
- PCM

19. 11. In PWM, W stands for

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- Wavelength
- Width
- Worse
- Word

20. 12. In angle modulation, which of the following parameters of carrier signal varies

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- Amplitude or Phase
- Amplitude or Frequency
- Phase and frequency
- None of these

21. 13. The maximum efficiency of amplitude modulation is

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- 33.33 %
- 66.66%
- 100%
- 50%

22. 14. PAM signal can be demodulated by using

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- LPF
- HPF
- BPF
- None of these

23. 15. Flat-top sampling leads to

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- an aperture effect
- aliasing
- loss of signal
- None of these

24. 16. 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

25. 17. In AM, the modulating frequency should always be

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

26. 18. The process of transmitting two or more information signals simultaneously over the same channel is called

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- multiplexing
- telemetry
- detection
- modulation

27. 19. The function of the input transducer in a communication system is

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- to transmit the message signal
- to modulate the message signal
- to convert message signal into electrical signal
- none of these

28. 20. The simplest demodulator circuit consists of a

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- SCR
- Transistor
- Diode
- UJT

29. 21. In superheterodyne receiver, image frequency can be rejected by making

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- RF stage more selective
- IF stage more selective
- Local oscillator more selective
- None of these

30. 22. Capture effect is active in

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- AM
- PCM
- PAM
- FM

31. 23. One of the receiver characteristics is

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- Sensitivity
- Resolution
- Linearity
- None of these

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

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

33. 25. In electronic telephone, tone ringer is driven by ringing signal whose frequency is

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- 10 kHz
- 20 kHz
- 40 kHz
- 50 kHz

34. 26. ISDN stands for

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

35. 27. The full form of EPABX is

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- electronic public automation branch exchange
- extended public automation branch exchange
- electronic private automation branch exchange
- electronic private alternate branch exchange

36. 28. Tone dialing means dialing with

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- single frequency
- dual frequency
- multi frequency (more than two)
- no frequency

37. 29. Standard telephones receive their power from

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- An internal AC power supply
- A battery
- 48 Vdc supplied by the telephone company
- 90 Vac supplied by the telephone company

38. 30. Under sampling leads to

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

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