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

Course Name - Analog and Digital Communication
Course Code - PCC-EC401

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Answer all the questions. Each question carry one mark.

9. 1. In AM, the modulating frequency should always be

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

10. 2. The demodulation of a delta modulated signal is achieved by

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- integration
- differentiation
- sampling
- band pass filtering

11. 3. In communication systems, noise due to quantization error is

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- linear and signal dependent
- nonlinear and signal dependent
- linear and signal independent at low frequencies only
- nonlinear and signal dependent at low frequencies only

12. 4. For which of the following systems, the signal to noise ratio is the highest?

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- PAM
- PWM
- PPM
- PAM and PWM

13. 5. The types of modulation used generally in TV transmission for video and audio signals, respectively, are

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

14. 6. Which of the following blocks is not common in both AM and FM receivers?

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- RF amplifiers
- mixer
- IF amplifiers
- slope detector

15. 7. Fading is

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- change in polarization only at receiver end
- change in frequency only at receiver end
- fluctuation in signal strength at receiver end
- change in phase only at receiver end

16. 8.In phase modulation, phase deviation is proportional to

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- carrier amplitude
- carrier phase
- message signal
- message signal frequencies

17. 9. 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

18. 10. Zero crossing detectors are used to detect

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- SSB-SC
- DSB-SC
- FM
- AM

19. 11. Which of the following modulated signals can be detected by an envelope detector?

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- DSB suppressed carrier
- DSB full carrier
- frequency modulated signal
- SSB supported carrier

20. 12. Encoder

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- assigns quantized values
- changes quantized values to binary values
- changes quantized values to numerical values
- changes numerical values to binary values

21. 13. A pre-emphasis circuit provides extra noise immunity by

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- boosting the base frequencies
- amplifying the higher audio frequencies
- pre-amplifying the whole audio band
- converting the phase modulation to FM

22. 14. 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

23. 15. Capture effect is active in

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- AM
- PAM
- PCM
- FM

24. 16. The quantization error can be improved by

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- increasing steps size
- reducing steps size
- keeping equal steps size
- None of these

25. 17. The most common modulation system used for telegraphy is

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- frequency-shift keying
- pulse-code modulation
- single-tone modulation
- None of these

26. 18. The function of buffer amplifiers in transmitter is

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- to amplify audio signa
- to multiply frequency
- to isolate RF state
- None of these

27. 19. Which of the following is not common in both AM and FM receiver?

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- RF amplifier
- mixture
- IF amplifier
- slope detector

28. 20. In TV telecast, the sound signal is modulated in

Mark only one oval.

- VSB
- SSB
- FM
- AM

29. 21. 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

30. 22. In digital transmission, the modulation technique that requires minimum bandwidth is

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- DM
- PCM
- DPCM
- PAM

31. 23. Thermal noise is also called as

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

32. 24. 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

33. 25. The spectrum of a signal extends from 200 Hz to 3200 Hz. The minimum sampling frequency for the signal is

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- 6 kHz
- 3 kHz
- 1.5 kHz
- 4 kHz

34. 26. 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

35. 27. The modulation index of an AM wave is changed from 0 to 1. The transmitted power is

Mark only one oval.

- unchanged
- halved
- doubled
- increased by 50%

36. 28. 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

37. 29. The spectral density of white noise is

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- exponential
- uniform
- Poisson
- Gaussian

38. 30. By employing modulation we can

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