

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

Course Name - --Advance Communication Engineering

Course Code - DECE602

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Answer all the questions. Each question carry one mark.

9. 1.Whole world can be covered with

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- 3 Geo-stationary satellites
- 2 Geo-stationary satellites
- 5 Geo-stationary satellites
- 4 Geo-stationary satellites

10. 2.The key electronic component in a communication satellite is

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- Telemetry
- Command and control system
- On board computer
- Transponder

11. 3.A satellite in low circular orbit than a geostationary orbit is known as

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- Passive satellite
- Active satellite
- Fast moving satellite
- Slow moving satellite

12. 4.Energy sources for satellite is

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- Battery
- Solar cell
- Fuel
- Magneto hydro dynamic generator

13. 5. Most commercial satellite activity occurs in

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- X band
- S and P band
- L band
- C and Ku band

14. 6. The speed of a satellite depends on

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- Height of the satellite
- Frequency used in the satellite
- Weight of the satellite
- Earth station control

15. 7. The earth area covered by a satellite radio beam is known as

Mark only one oval.

- Beam width
- Bandwidth
- Footprint
- Zone

16. 8.What band does very small aperture terminal (VSAT) first operate?

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- L-band
- X-band
- C-band
- Ku-band

17. 9.A geosynchronous satellite

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- Has the same period that of the earth
- Has a circular orbit
- Rotates in the equatorial plane
- All of these

18. 10.Kepler's first law states

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- The path followed by a satellite around the primary will be an ellipse
- The path followed by a satellite around the primary will be a circle
- The path followed by a satellite around the primary will be a sphere
- None of these

19. 11.Perigee is

Mark only one oval.

- The point farthest from earth
- The point longest from earth
- The point closest approach to earth
- None of these

20. 12.The carrier to noise ratio for a satellite depends upon

Mark only one oval.

- Effective Isotropic Radiated power
- Bandwidth
- Free space path losses
- All of these

21. 13.Low-Earth-orbit (LEO) satellites have _____ orbits.

Mark only one oval.

- equatorial
- polar
- inclined
- None of these

22. 14.VSAT stands for

Mark only one oval.

- Very small aperture terminal
- Vast small aperture terminal
- Virtual small aperture terminal
- None of these

23. 15.Iridium satellites are _____ satellites

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- GEO
- LEO
- MEO
- None of these

24. 16.Two light sources are said to be coherent if

Mark only one oval.

- They vibrate in same phase
- They vibrate with constant phase difference
- Both (a) and (b)
- Either (a) or (b)

25. 17.Which of the following is not classified as a photoconductive device?

Mark only one oval.

- PN photodiode
- PIN photodiode
- Photo voltaic cell
- Phototransistor

26. 18.The operation of fiber optic cable is based on principle of

Mark only one oval.

- Refraction
- Dispersion
- Total internal reflection
- None of these

27. 19.The most important property of LASER light is

Mark only one oval.

- It is a coherent source
- It is a non-coherent source
- Its beam width is large
- Its speed is very high

28. 20.Population inversion is a property found in

Mark only one oval.

- LED
- Photodiode
- APD
- LASER

29. 21.Removable joints which allow easy, fast, manual coupling and decoupling of fiber are called

Mark only one oval.

- Fiber splices
- Fiber connector
- Fiber coupler
- None of these

30. 22.Which one of the following multiplexing technique involves signal composed of light waves?

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- WDM
- TDM
- FDM
- CDM

31. 23. In Optical fiber communication, the second window is centered at around

Mark only one oval.

- 1310 nm
- 850 nm
- 1550 nm
- 3300 nm

32. 24. In an ideal multimode step index fiber

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- Optical power launched into a particular mode shifts to other mode
- No mode coupling
- Properties of cladding has significant effect on power transfer
- Relative index difference is proportional to distance

33. 25. Pulse broadening in graded index fiber is due to

Mark only one oval.

- Intermodal dispersion
- Intramodal dispersion
- Both (a) and (b)
- None of these

34. 26. Light output of a laser is related with increase in drive current, as

Mark only one oval.

- Below threshold current it increases sharply
- Above threshold current it increases sharply
- Below threshold current it decreases sharply
- The slope remains same for below and above threshold current

35. 27. Optical bandwidth is always

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- Greater than the electrical bandwidth
- Less than the electrical bandwidth
- Equal to the electrical bandwidth
- Square of the electrical bandwidth

36. 28. Function of receiver in optical fiber communication is to

Mark only one oval.

- Reshape the degraded signal
- Amplify the degraded signal
- Both amplify and reshape degraded signal
- None of these

37. 29. In purely single mode operation pulse broadening is due to

Mark only one oval.

- Intermodal dispersion
- Intramodal dispersion
- Large bandwidth
- None of these

38. 30. Photo detector used in optical fiber is

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- Environmental noise
- Background noise
- Shot noise
- None of these

39. 31. Pulse broadening in multimode fiber is due to

Mark only one oval.

- Intermodal dispersion
- Intramodal dispersion
- Both (a) and (b)
- None of these

40. 32. Which optical source-detector combination is suitable for high bandwidth long haul communication?

Mark only one oval.

- LED – Pin diode
- LASER diode - APO
- LED – LASER diode
- LED - APO

41. 33. For short haul optical communication the suitable optical fiber is

Mark only one oval.

- Single mode step index fiber
- Multimode step index fiber
- Graded index single mode fiber
- Graded index multimode fiber

42. 34. A step index fiber has a core with refractive index 1.57 and a cladding with refractive index 1.41. Its numerical aperture is

Mark only one oval.

- 0.69
- 0.75
- 0.57
- 0.65

43. 35.Total internal reflection (TIR) is associated with

Mark only one oval.

- Brewster angle
- Critical angle
- Normal incidence
- None of these

44. 36.Intramodal dispersion occurs in a fiber because of

Mark only one oval.

- Different time taken by different rays to pass through the fiber
- Power attenuation in the fiber
- Different frequency components passing through the fiber undergo different amounts of delay
- All of these

45. 37.A non-coherent light source for optical communications system is _____

Mark only one oval.

- LED
- ILD
- PIN Diode
- APD

46. 38. In optical communication, as optical power is increased, BER goes on decreasing till a certain BER value is reached after which BER goes on increasing. This increase in BER is observed because of

Mark only one oval.

- Non-linear effects
- Dispersion
- Attenuation
- Thermal Noise

47. 39. For obtaining maximum source to fiber coupling efficiency, the parameter of the fiber which should be matched with that of the source is

Mark only one oval.

- Spot size
- Geometric aperture
- Both (a) and (b)
- None of these

48. 40. For communication of information, the fiber generally employed is_____.

Mark only one oval.

- Single-mode fiber
- Dual mode fiber
- Multimode fiber
- None of these

49. 41.Optical nonlinearity is responsible for _____

Mark only one oval.

- Broadening of pulses
- Compression of pulses
- Both a and b
- Long repeater spacing communication

50. 42.The efficiency of an LED for generating light is directly proportional to the

Mark only one oval.

- Temperature
- Level of doping
- Applied voltage
- Current injected

51. 43.The wavelength of emitted light in LED depends on

Mark only one oval.

- The type of the material
- Temperature of the surrounding
- The energy gap of the material
- All of these

52. 44.Which one of the following is not LED material?

Mark only one oval.

SiO₂

GaAs

GaP

SiC

53. 45.If two optical fibers with different diameters are to be spliced, which of the following mechanical splices will be most suitable?

Mark only one oval.

Sung tube splice

Loose tube splice

Spring groove splice

V- groove splice

54. 46.LEDs operate correctly when it is_____.

Mark only one oval.

Reversed biased

Forward biased

Both (a) and (b)

None of these

55. 47. Electromagnetic wave travel at

Mark only one oval.

- 3×10^8 km/sec
- 3×10^8 meter/sec
- 8×10^3 km/sec
- 3×10^8 meter/hour

56. 48. Techniques that uses M different carrier frequencies that are modulated by source signal is called

Mark only one oval.

- Multiplexing
- Spreading
- FHSS
- DSSS

57. 49. In frequency hopping spread spectrum (FHSS), the sender and receiver can have privacy if the hopping period is

Mark only one oval.

- Long
- Short
- Infinity
- Zero

58. 50.To increase error probability, the processing gain should be

Mark only one oval.

- Increased
- Decreased
- Exponentially increased
- Exponentially decreased

59. 51.Which system allows larger processing gain?

Mark only one oval.

- Direct sequence spread spectrum
- Frequency hopping spread spectrum
- Time hopping spread spectrum
- None of the mentioned

60. 52.A linear feedback shift register consists of

Mark only one oval.

- Feedback path
- Modulo 2 adder
- Shift registers
- All of these

61. 53.A URL is an

Mark only one oval.

- Internet e-mail address
- Router code
- Web address
- File name

62. 54.Which of the following is a regenerator?

Mark only one oval.

- Bridge
- Router
- Repeater
- Gateway

63. 55.IEEE standard for standard Ethernet is

Mark only one oval.

- IEEE 802.11
- IEEE 805.11
- IEEE 802.3
- IEEE 802.5

64. 56.The connectivity from exchange to customer premises is termed as

Mark only one oval.

- Data network
- Access network
- Bridge network
- None of these

65. 57.Physical or logical arrangement of network is called

Mark only one oval.

- Topology
- Networking
- Routing
- None of these

66. 58.The Hamming code is used for

Mark only one oval.

- Error detection
- Error correction
- Error encapsulation
- (a) and (b) both

67. 59.Which of the following is an inter-domain routing protocol?

Mark only one oval.

- RIP
- OSPF
- BGP
- Both (a) and (b)

68. 60.The two parameters used for measuring the performance of a network are

Mark only one oval.

- Delay and throughput
- Power and delay
- Power and throughput
- Throughput and buffer size

69. 61.The function of a modem is

Mark only one oval.

- Multiplexing and Demultiplexing
- Modulation and Demodulation
- Demultiplexing and Multiplexing
- Demodulation and Modulation

70. 62. In which topology there is a central controller or hub?

Mark only one oval.

Star

Mesh

Ring

Bus

71. 63. A topology that involves Tokens

Mark only one oval.

Star

Ring

Bus

Daisy chaining

72. 64. In TDM, slots are further divided into _____

Mark only one oval.

Seconds

Frames

Packets

None of these

73. 65.The participating computers in a network are referred to as

Mark only one oval.

- Clients
- Servers
- Nodes
- CPUs

74. 66.Which one is the second generation mobile communication system?

Mark only one oval.

- AMPS
- IMT-2000
- GSM
- None of these

75. 67.Cellular telephone use

Mark only one oval.

- Simplex
- Half duplex
- Full duplex
- Triplex

76. 68.What is the responsibility of MSC in cellular telephone system?

Mark only one oval.

- Connection of mobile to base stations
- Connection of mobile to PSTN
- Connection of base station to PSTN
- Connection of base station to MSC

77. 69.What is handoff?

Mark only one oval.

- Forward channel
- Switching technique
- Roamer
- Guard channel

78. 70.The technique adopted to increase the system capacity and reduce co-channel interference is

Mark only one oval.

- High power BTS
- By installing omnidirectional antenna
- Sectorisation
- None of these

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