

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

Course Name - –Electronic Appliances in Everyday Life

Course Code - GEEC401

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Answer all the questions. Each question carry one mark.

9. 1. The audio frequency range

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- 5 Hz to 1 KHz
- 50 Hz to 1 KHz
- 16Hz to 20 KHz
- 0 Hz to 20KHz.

10. 2. Signal to noise ratio of a microphone is defined as the ratio of output when the sound pressure is to the output in the absence of any sound signal

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- 0.5pa
- 0.2 pa
- 0.1pa
- 0.01pa.

11. 3. UHF range is

Mark only one oval.

- 30 MHz to 300 MHz
- 300 MHz to 3000MHz
- 3000 MHz to 30000 MHz
- above 30000 MHz

12. 4.The filter circuit for feeding a woffler has

Mark only one oval.

- an inductance in series and capacitance in parallel
- a capacitance in series and an inductance in parallel
- a resistance in series and inductance in parallel.
- None of these

13. 5. Audio amplifiers need

Mark only one oval.

- bass control
- treble control
- both (a) & (b)
- either (a) or (b).

14. 6. The material used for the magnet of moving coil cone type loudspeaker is

Mark only one oval.

- steel alloy
- soft iron
- hard steel
- alnico

15. 7. In a CD the depth and width of each pit is

Mark only one oval.

- 0.5 μ m each
- 0.5 μ m and 1 μ m respectively
- 1 μ m each
- None of these

16. 8. Bass-reflex type enclosures increase the strength of

Mark only one oval.

- low audio frequency
- high audio frequency
- complete audio frequency range
- reflected waves.

17. 9. In a Videocon camera tube, the beam current is controlled by

Mark only one oval.

- grid G1
- grid G2
- grids G1,G2,G3
- grid G2 and G3

18. 10. In a television camera tube, scanning of a picture is done

Mark only one oval.

- line by line from left to right
- line by line from right to left
- line by line from top to bottom
- line by line from bottom to top.

19. 11. The characteristics impedance of a twin feeder used for TV signals is about

Mark only one oval.

100Ω

500Ω

300Ω

75Ω

20. 12. In a picture tube, the video signal is applied to

Mark only one oval.

cathode

grid

any anode

either cathode or grid

21. 13. The sub-carrier frequency for transmission of colour difference signals TV system in India is

Mark only one oval.

9.47 MHz

4.43 MHz

2.06 MHz

1.3 MHz

22. 14. Which phenomenon is sensed by listeners in stereo-phony?

Mark only one oval.

- loudness
- timber
- pitch
- direction

23. 15. For a 50 cm size screen width will be _____ cm and height will be _____ cm.

Mark only one oval.

- 20,25
- 30,40
- 50,60
- None of these

24. 16. Radio broadcasts are generally

Mark only one oval.

- amplitude modulated
- frequency modulated
- both amplitude and frequency modulated
- neither amplitude nor frequency modulated

25. 17. HDTV system is based on the technique of

Mark only one oval.

- TDM
- FDM
- WDM
- CDMA

26. 18. Tracks pitch and pits density of DVD is

Mark only one oval.

- double of VCD
- same as VCD
- half of VCD
- four times of VCD.

27. 19. How does the duration of program recorded on a tape speed?

Mark only one oval.

- higher the tape speed lower the duration
- it does not depend on tape speed
- lower the tape speed, greater is the duration
- it depends on gap-size alone

28. 20. Duration of the vertical blanking pulse used in India is

Mark only one oval.

- 64 μ s
- 100 μ s
- 160 μ s
- 1280 μ s

29. 21. In PAL system phase of R-Y signal is changed every alternate line by

Mark only one oval.

- 90 degree
- 180 degree
- 270 degree
- 360 degree

30. 22. Which of the following microphone has distortion?

Mark only one oval.

- Ribbon
- Crystal
- Condenser
- carbon

31. 23. A direct radiating cone type loudspeaker attenuates

Mark only one oval.

- medium range frequency
- very low frequency
- high frequencies
- very low & high frequencies

32. 24. A tweeter should be fed from the input through a

Mark only one oval.

- LPF
- HPF
- BSF
- BPF

33. 25. A CD the In sampling frequency is nearly

Mark only one oval.

- half the highest frequency in audio signal
- equal to highest frequency in audio signal
- double the highest frequency in audio signal
- None of these

34. 26. The directions of pick up in a CD is

Mark only one oval.

- linear from centre towards edge
- linear form edge to centre
- non- linear from centre to edge
- non- linear from edge to centre

35. 27. Graphic equaliser system in stereophonic systems generally have

Mark only one oval.

- 3 & 4 bands
- 1 band
- more than 8 bands
- large number of bands

36. 28. Just when the video signal is applied to the picture tube in a TV receiver, the strength of video signal is about

Mark only one oval.

- 1000V
- 200V
- 50V
- 1V

37. 29. On what principle does a loudspeaker work?.

Mark only one oval.

- Motor
- Generator
- Amplifier
- Oscillator

38. 30. A rigid flat material used to extend the edges of loudspeaker cone is called.

Mark only one oval.

- woofer
- tweeter
- baffle
- Oscillator

39. 31. What makes a microphone unidirectional?

Mark only one oval.

- Reflection
- Refraction
- Diffraction
- Pressure gradient

40. 32. Video signals are transmitted through -

Mark only one oval.

- amplitude modulation
- frequency modulation
- either (a) or (b)
- neither (a) nor (b)

41. 33. The frequency response of a microphone means -

Mark only one oval.

- band width of frequencies having output within +/- 1dB of the output at 1000Hz
- band width of frequencies having output within +/- 3dB of the output at 1000Hz
- band width of frequencies having output within +/- 1dB of the output at 500Hz
- band width of frequencies having output within +/- 3dB of the output at 500Hz

42. 34. The material used for the magnet of moving coil cone type loudspeaker is -

Mark only one oval.

- steel alloy
- soft iron
- hard steel
- alnico

43. 35. A woffer should be fed from the input through a –

Mark only one oval.

- low pass filter
- high pass filter
- band pass filter
- band stop filter

44. 36. Which of the following microphones has an inbuilt amplifier? –

Mark only one oval.

- condenser
- moving coil
- ribbon
- carbon

45. 37. compact discs are

Mark only one oval.

- magnetic recording and retrieval
- optic recording and retrieval
- optic recording but magnetic retrieval
- Magnetic recording and optical retrieval

46. 38. Which of the following depends on its action on the variation of capacitance between two electrodes or conducting plates-

Mark only one oval.

- Carbon Micro phones
 Condenser Micro phones
 Crystal Micro phone
 Both (a) & (b)

47. 39. Two plates in which the alternating force from the sound waves causes an alternating EMF to be generated is known as-

Mark only one oval.

- Cartiridges
 Bimorph Elements
 Faders
 Crystal Element

48. 40. Magnetic material used in magnetic tape is-

Mark only one oval.

- Beta – Ferric Oxide
 Gama – Ferric Oxide
 Nitric Oxide
 Cupric Oxide

49. 41. Base material used in magnetic tap is-

Mark only one oval.

- Gama- Ferric Oxide
- Cellophane
- Cellulose
- Crape Paper

50. 42. The length of double play is-

Mark only one oval.

- 360m
- 550m
- 730m
- 220m

51. 43. An erase head is placed-

Mark only one oval.

- In front of play back head
- Rear of play back head
- Along with the play back head
- Left of the record play back head

52. 44. The head performing the combined functions of recording & play back is known as-

Mark only one oval.

- record head
- play back head
- record/play back head
- erase head

53. 45. The process of storage of sound is-

Mark only one oval.

- erasing
- recording
- record/play back
- forward

54. 46. Which part of tape driving mechanism rotates the capstan?

Mark only one oval.

- Idler
- Fly wheel
- pinch roller
- Driving belts

55. 47.The amplifier is used for amplifying the weak micro phone signal in process-

Mark only one oval.

- play back process
- recording process
- erasing process
- rewind process

56. 48.Which part of the tape transport mechanism releases the reel-

Mark only one oval.

- Take up reel
- Supply reel
- Idler drive
- Fly wheel

57. 49. The magenatisation of the tape depends on the strength of-

Mark only one oval.

- Entire field
- Electromagnetic field
- Magnetic field
- Electrostatic field

58. 50. Which of the following microphone commonly used as a Transmitter in telephone equipments

Mark only one oval.

- carbon microphone
- crystal microphone
- condenser microphone
- ribbon microphone

59. 51.The frequency response of a crystal microphone is-

Mark only one oval.

- 30000Hz
- 20000Hz
- 10000Hz
- 600Hz

60. 52.Which of the micro phone operates on the principle of electromagnetic induction-

Mark only one oval.

- carbon microphone
- crystal microphone
- dynamic moving coil microphone
- cordless microphone

61. 53. The frequency response of a condenser microphone is-

Mark only one oval.

- 10 Hz to 2KHz
- 30 Hz to 9KHz
- 20 Hz to 2KHz
- 40Hz to 9KHz

62. 54.The ribbon microphone the Ribbon is made up of-

Mark only one oval.

- Corrugated aluminium foil
- Carbon
- crystal
- copper

63. 55. When outputs of two or microphone are mix in a gradual or controllable manner in PA system use of more complicated mixing circuit is resorted to such mixing are -

Mark only one oval.

- attenuator
- faders
- connectors
- Both (a)&(b)

64. 56. From the following through which the matching problems solved by restanc network-

Mark only one oval.

- filters
- attenuator
- transformer
- transducer

65. 57. From the following in which the crystal microphone depends for ots operation-

Mark only one oval.

- Electromagnetic Induction
- Piezoelectric property
- Magnetic Property
- Electric Property

66. 58. From the following what is the general requirement from the micro phone-

Mark only one oval.

- the response of the micro phone should be depends on frequency
- the response of the micro phone should be independent of frequency
- the frequency range should be very high
- the frequency range should be very low

67. 59. The varying pressure of the carbon granules modulated a steady dc current that flows through the circuit due to a polarizing potential is of about how much applied from telephonic circuit

Mark only one oval.

- 20v
- 30v
- 50v
- 60v

68. 60. Impedance of the loudspeaker is of the order of-

Mark only one oval.

- ohms
- mega ohms
- kilo ohm
- Gega ohm

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