

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

Course Name - –Electronic Instrumentation and Measurement

Course Code - OEC601A

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Answer all the questions. Each question carry one mark.

9. 1. A moving-coil permanent-magnet instrument can be used as by using a low resistance shunt.

Mark only one oval.

- ammeter
- voltmeter
- flux-meter
- ballistic galvanometer

10. 2.For measurements on high voltage capacitors, the suitable bridge is

Mark only one oval.

- Wein bridge
- Modified De Santy's bridge
- Schering bridge
- none of the above

11. 3.In electrical measuring instruments electrical energy is converted to

Mark only one oval.

- Mechanical energy
- Heat energy
- Chemical energy
- Light energy

12. 4. The frequency can be measure by

Mark only one oval.

- wien's bridge
- Schering Bridge
- De Sauty's Bridge
- Anderson's Bridge

13. 5.The degree of closeness of the measured value of a certain quantity with its true value is known as

Mark only one oval.

- Accuracy
- Precision
- Standard
- Sensitivity

14. 6.Error of measurement =

Mark only one oval.

- True value – Measured value
- Precision – True value
- Measured value – Precision
- None of the above

15. 7. 1 Angstrom (\AA) = _____

Mark only one oval.

- 10^{-6}m
- 10^{-8}m
- 10^{-10}m
- 10^{-12}m

16. 8. At high frequencies the capacitive reactance.

Mark only one oval.

- is constant
- increases
- decreases
- becomes zero

17. 9. The commonly used detectors in ac bridges is/are

Mark only one oval.

- Head phones
- Vibration galvanometers
- Tuned amplifiers
- all of the above

18. 10. The scale of PMMC type instruments is

Mark only one oval.

- Uniform
- Non-uniform
- Cramped at the lower ends
- Crowded in the middle

19. 11. A liquid crystal display requires

Mark only one oval.

- An AC drive
- Both AC and DC drive
- Both AC and DC drive
- None of these

20. 12. Q meter is used to measure the properties of

Mark only one oval.

- Inductive coils
- Non inductive coils
- Capacitive coils
- Inductive coils & Capacitive coils

21. 13. With the increase in the intensity of light, the resistance of a photovoltaic cell

Mark only one oval.

- Increases
- Decreases
- Remains same
- None of these

22. 14. Ballistic galvanometer are principally used for the measurement of

Mark only one oval.

- Current
- Voltage
- Power
- Electric charges

23. 15. The Wien's bridge is suitable for the measurement of frequency of the range of

Mark only one oval.

- Less than 100 Hz
- 100 Hz to 100 kHz
- 1 kHz to 100 MHz
- More than 100 MHz

24. 16. Schering bridges are used for the measurement of

Mark only one oval.

- Unknown capacitance
- Dielectric loss
- Power factor
- All of these

25. 17. Q meter works on the principle of

Mark only one oval.

- Series resonance
- Parallel resonance
- Series resonance & Parallel resonance
- Neither series resonance nor parallel resonance

26. 18. The Ac Bridge used for the measurement of inductance is/are

Mark only one oval.

- Maxwell's inductance bridge
- Hay's bridge
- Anderson's bridge, Owen's bridge
- All of These

27. 19. Oscilloscope is _____

Mark only one oval.

- a ohmmeter
- an ammeter
- a voltmeter
- a multimeter

28. 20. CRO is a _____

Mark only one oval.

- fast x-y plotter
- slow x-y plotter
- medium x-y plotter
- not a plotter

29. 21. Control grid is given _____

Mark only one oval.

- positive voltage
- negative voltage
- neutral voltage
- zero voltage

30. 22. Effect of negative voltage to the grid is _____

Mark only one oval.

- no force
- a gravitational force
- an attractive force
- a repulsive force

31. 23. Deflection system of a CRT consists of _____

Mark only one oval.

4 plates

6 plates

2 plates

8 plates

32. 24. Input signals are amplified in CRO using _____

Mark only one oval.

rectifier

amplifier

oscillator

op amp

33. 25. Input stage in the amplifier consists of _____

Mark only one oval.

oscillator

attenuator

rectifier

op amp

34. 26. Phase inverter is used in an amplifier in the CRO because _____

Mark only one oval.

- phase inversion is needed
- no phase inversion is needed
- it is needed to operate a push pull
- it provides voltage stability

35. 27. What is the problem with using more than one oscilloscopes?

Mark only one oval.

- measuring the signal's parameters
- triggering
- supply voltage
- errors in reading

36. 28. After pre-amplification the signals are fed into

Mark only one oval.

- an electronic switch
- a signal generator
- a rectifier
- a regulator

37. 29. Electronic switch is controlled by

Mark only one oval.

- D flip-flop
- SR flip-flop
- T flip-flop
- JK flip-flop

38. 30. Which technique of a Dual Trace Oscilloscope maintains the phase between the signals?

Mark only one oval.

- Analog mode
- Mixed mode
- Chop mode
- Alternate mode

39. 31. A practical Q meter consists of _____

Mark only one oval.

- Wien bridge oscillator
- AF oscillator
- RF oscillator
- Crystal oscillator

40. 32. Voltage across the shunt is measured by _____

Mark only one oval.

- voltmeter
- multimeter
- thermocouple
- thermometer

41. 33. Quantities are digitised using _____

Mark only one oval.

- D/A converter
- oscillator
- amplifier
- A/D converter

42. 34. A.C. voltages are measured using _____

Mark only one oval.

- oscillators and op amps
- rectifiers and filters
- resistor and capacitor
- inductor and resistor

43. 35. What is the effect of clock on the voltage?

Mark only one oval.

- voltage doubles with clock input
- voltage halves with clock input
- no effect
- voltage becomes zero with clock input

44. 36. Linear ramp technique is based on

Mark only one oval.

- voltage measurement
- time measurement
- current measurement
- resistance measurement

45. 37. In ramp technique Resolution depends on

Mark only one oval.

- frequency
- resistance
- voltage
- current

46. 38. In ramp technique Which determines the rate of measurement cycles?

Mark only one oval.

- oscillator
- amplifier
- mutivibrator
- oscilloscope

47. 39. A successive approximation type DVM makes use _____

Mark only one oval.

- of a digital divider
- of an analog divider
- of an oscillator
- of a transducer

48. 40. Which compares the output in a successive approximation type DVM?

Mark only one oval.

- op amp
- diode
- comparator
- rectifier

49. 41. Sensitivity of a successive approximation type DVM is given by the relation.

Mark only one oval.

- $S = f_s \text{ min}$
- $S = f_s \text{ min} \times R$
- $S = R$
- $S = f_s \text{ min} / R$

50. 42. Digital voltmeters converts _____

Mark only one oval.

- analog to digital signal
- digital to analog signal
- current to voltage
- resistance to voltage

51. 43. In a DVM, a signal conditioning circuit is used _____

Mark only one oval.

- to bring current to a suitable limit
- to bring resistance to a suitable limit
- to bring resistance to s suitable limit
- to bring voltage to a suitable limit

52. 44. In A.C. circuits, power consumed is _____

Mark only one oval.

- product of voltage and current
- it depends on the p.f. of the circuit in addition
- it depends on the supply voltage
- it depends on the magnitude of the circuit

53. 45. A dynamometer type wattmeter consists of _____

Mark only one oval.

- only potential coil
- potential and current coils
- only current coil
- no coils

54. 46. When the moving coil in a Dynamometer type wattmeter deflects

Mark only one oval.

- pointer moves
- pointer doesn't move
- current flows
- voltage is generated

55. 47. What is the effect of capacitance on wattmeter reading?

Mark only one oval.

- aiding the inductance
- opposite to that of inductance
- aiding the capacitance
- opposite to that of resistance

56. 48. Current in a pressure coil of the Dynamometer type wattmeter

Mark only one oval.

- lags the applied voltage
- leads the applied voltage
- is in phase with the applied voltage
- there is a phase difference of 90 degrees

57. 49. What is the effect of frequency on the torque of a moving system?

Mark only one oval.

- torque is half of the frequency
- torque is twice the frequency
- torque is thrice the frequency
- torque is four times the frequency

58. 50. In Wein's bridge, the output frequency is determined by _____

Mark only one oval.

- RLC combination
- LC combination
- RC combination
- RL combination

59. 51. Maxwell's Inductance Capacitance Bridge is used for measuring _____

Mark only one oval.

- Inductance
- Capacitance
- Frequency
- Mutual Inductance

60. 52. Typically oscilloscope represents _____

Mark only one oval.

- current and time
- resistance and time
- voltage and time
- power and time

61. 53. Schering bridge is used for _____

Mark only one oval.

- low voltages only
- low and high voltages
- high voltages only
- intermediate voltages only

62. 54. For phase angles close to 90° , the power factor of the Schering bridge is _____

Mark only one oval.

- p.f. = $\omega R \times$
- p.f. = $\omega C \times$
- p.f. = $R \times C \times$
- p.f. = $\omega R \times C \times$

63. 55. Curve tracers use CRO in _____

Mark only one oval.

- diodes
- passive devices
- active devices
- op amps

64. 56. Commercial Schering bridge can be used for the measurement of capacitances

Mark only one oval.

- from 10pF to 0.1nF
- from 100pF to 1Mf
- from 50nF to 10mF
- from 25mF to 5F

65. 57. A Schering bridge can be used for the

Mark only one oval.

- measuring voltages
- measuring currents
- testing capacitors
- protecting the circuit from temperature rises

66. 58. Bridge must be balanced for _____

Mark only one oval.

- magnitude
- angle
- magnitude and angle
- power

67. 59. For inductive impedances, the phase angle is _____ for Bridge balance.

Mark only one oval.

- Positive
- negative
- zero
- exponential

68. 60. When bridge is balanced?

Mark only one oval.

- no voltage drop across the circuit
- power dissipation is high
- temperature of the circuit is high
- no current flows

69. 61. At very low frequencies in a AC bridge, the source is _____

Mark only one oval.

- power line
- e.m.f
- galvanometer
- tuned circuit

70. 62. Tuned amplifiers can be set to _____

Mark only one oval.

- low frequencies
- high frequencies
- any frequency
- audio frequencies

71. 63. What is the frequency range for a headphone as a detector?

Mark only one oval.

- 20 Hz to 20 kHz
- 10 kHz to 1 MHz
- 10 MHz to 1 GHz
- 250 Hz to 4 kHz

72. 64. For single frequency value, the most sensitive detector is _____

Mark only one oval.

- tuned detector
- vibration galvanometer
- headphone
- oscillator

73. 65. Vibration galvanometers are used for _____

Mark only one oval.

- very high frequency
- very low frequency
- low audio frequency
- high audio frequency

74. 66. A bridge circuit uses which method of measurement?

Mark only one oval.

- absolute
- relative
- differential
- comparison

75. 67. The accuracy of a bridge depends on the _____

Mark only one oval.

- null indicator
- bridge components
- current source
- voltage source

76. 68. In basic electronics voltmeter, Overloading is _____

Mark only one oval.

- damages the meter
- increases the temperature
- doesn't affect the meter
- decreases the sensitivity

77. 69. Accuracy of bridge circuit depends on _____

Mark only one oval.

- component values
- null detector
- voltage source
- current source

78. 70. What happens to the balance condition, if the source and detector are interchanged?

Mark only one oval.

- increases by a factor of 2
- reduces to half
- remains unchanged
- independent of the type of source and detector

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