

Duration: 30 Mins

Total Marks: 100

Q.ID: ITISKILL9511AG

1. What is the term stands for TRIAC?

- A) Triode Access console B) Triode AC semiconductor
C) Triode DC semiconductor D) Triode Alternate control

Answer: B) Triode AC semiconductor

2. What is the efficiency transformer coupled class A amplifier?

- A) More than 60% B) Less than 20%
C) Unity D) About 50%

Answer: D) About 50%

3. What is the phase relationship between the applied voltage and current in the primary of a transformer with open secondary winding?

- A) Voltage leads current by 45 Degree B) Current leads voltage by 90 Degree
C) Voltage lags current by 45 Degree D) Current lags voltage by 90 Degree

Answer: A) Voltage leads current by 45 Degree

4. In which quantity affects the Q point of a transistor amplifier?

- A) Mismatching signals B) Decreased temperature
C) Increased temperature D) Proper biasing methods

Answer: C) Increased temperature

5. What is the power dissipated if 10mA current flows through a 10K Ohm resistor?

- A) 3000 milli watts B) 2000 milli watts
C) 1000 milli watts D) 4000 milli watts

Answer: C) 1000 milli watts

6. What is the name of the circuit that shifts the original signal in a vertical upward direction?

- A) Negative clamping circuit B) Positive clamping circuit
C) Combination clipper circuit D) Peak clipper circuit

Answer: B) Positive clamping circuit

7. What is the name of the circuit that shifts the original signal in a vertical downward direction?

- A) Negative clamping circuit B) Combination clipper circuit
C) Peak clipper circuit D) Positive clamping circuit

Answer: A) Negative clamping circuit

8. What is the full form of the abbreviation SPDT used in switches?

- A) Single Pole Double Throw B) Single Phase Dual Throw
C) Shared Pole Double Throw D) Single Pole Single Throw

Answer: A) Single Pole Double Throw

9. How the movement of electrons through a conductor in a particular direction is called?

- A) Inductance B) Electric current
C) Resistance D) Conductance

Answer: B) Electric current

10. What is the specific gravity of concentrated sulphuric acid?

- A) 1.945 B) 1.175
C) 1.835 D) 1.245

Answer: C) 1.835

11. Which mode is used in differential amplifier?

- A) Common emitter B) Common emitter
C) Common - mode operation D) Common base

Answer: C) Common - mode operation

12. Which metal has very good conductivity of electric current?

- A) Silver B) Aluminium
C) Copper D) Gold

Answer: A) Silver

13. Find the total resistance value of 10 ohms and 20 ohms connected in parallel.

- A) 6.666 Ohms B) 6666 Ohms
C) 666.6 Ohms D) 66.66 Ohms

Answer: A) 6.666 Ohms

14. The speed of spindle motor rotates inside the hard disk

- A) 4000 to 800 r.p.m B) 3500 to 6000 r.p.m
C) 3600 to 7200 r.p.m D) 2500 to 5000 r.p.m

Answer: C) 3600 to 7200 r.p.m

15. Which type of voltage regulator is IC 723?

- A) Multipin variable voltage regulator
C) Three pin adjustable voltage regulator
- B) Three pin negative voltage regulator
D) Three pin positive voltage regulator

Answer: C) Three pin adjustable voltage regulator

16. Which is the 3 terminal, negative voltage regulator IC?

- A) IC 7905
C) IC 7812
- B) LM 320
D) LM 340

Answer: A) IC 7905

17. Where the programs and datas are stored after execution in computer?

- A) Chip set
C) Processor
- B) Memory
D) Buffer

Answer: B) Memory

18. Which tool is used to measure the size of wire?

- A) Feeler gauge
C) Try square
- B) Standard wire gauge
D) Steel rule

Answer: B) Standard wire gauge

19. What is the common and popular application of UJT?

- A) Voltage regulator
C) Multivibrator
- B) Motor speed controller
D) Relaxation oscillator

Answer: D) Relaxation oscillator

20. Which insulation layer is used in MOSFET?

- A) Silicon-di-oxide
C) Germanium material
- B) Antimony material
D) Arsenic material

Answer: A) Silicon-di-oxide

21. Which step is important for soldering a joint?

- A) Heating the joint
C) Pasting the joint
- B) Cleaning the joint
D) Cooling the joint

Answer: A) Heating the joint

22. What is the full form of the abbreviation PMMC meter?

- A) Permanent Magnet Moving Coil meter
C) Parallel Magnet Moving Coil meter
- B) Position Magnet Moving Coil meter
D) Principle Magnet Moving Coil meter

Answer: A) Permanent Magnet Moving Coil meter

23. What is the full form of electronic component MOV?

- A) Metal Over Varactor
C) Metal Oxide Varactor
- B) Metal Oxide Varistor
D) Metal Over Varistor

Answer: B) Metal Oxide Varistor

24. Which bearing is supporting the shaft of moving coil assembly in a PMMC instrument?

- A) Jewelled bearings
C) Gun metal bearings
- B) Steel bearings
D) Bush bearings

Answer: A) Jewelled bearings

25. What is the advantage of SMPS in computer?

- A) Bulky
C) High efficiency
- B) High frequency noise low
D) Servicing of SMPS is easy

Answer: C) High efficiency

26. Rate of change of input voltage

- A) Rate of change of input voltage
C) Rate of change of output voltage
- B) Rate of change of output voltage
D) Rate of change of output frequency

Answer: B) Rate of change of output voltage

27. Which measuring instrument is used to make quick test on a TRIAC?

- A) Voltmeter
C) Oscilloscope
- B) Ohmmeter
D) Ammeter

Answer: B) Ohmmeter

28. Which electrolyte is used in maintenance free lead acid batteries?

- A) Ceramic electrolyte
C) Potassium electrolyte
- B) Gelled electrolyte
D) Sodium electrolyte

Answer: B) Gelled electrolyte

29. What is the shape of mandatory signs?

- A) Rectangular
C) Triangular
- B) Square
D) Circular

Answer: D) Circular

30. Which meter uses a moving coil for measurement?

- A) MI repulsion type
C) LCR meter
- B) MI attraction type
D) PMMC meter

Answer: D) PMMC meter

31. What type of control is used for FET?

- A) Current controlled device
C) Frequency controlled device
- B) Voltage controlled device
D) Resistance controlled device

Answer: B) Voltage controlled device

32. Which type of wave is generated in Schmitt trigger circuit?

- A) Triangular wave
C) Saw tooth wave
- B) Sine wave
D) Square wave

Answer: D) Square wave

33. Which is the package type for the JFET BFW10?

A) TO-72

B) TO-62

C) TO-92

D) TO-82

Answer: A) TO-72

34. How the insulation coating stays without damage, even on bending the wire?

A) Due to high current flow B) Due to elastic property of insulation

C) Due to the strength of the wire material D) Due to wire resistance

Answer: B) Due to elastic property of insulation

35. What is the reason for electric fire?

A) Deviation B) Overloading

C) Proper earthing D) Open circuit

Answer: B) Overloading

36. How many electrons are contained in coulomb of electric charge?

A) 6.25×10^{16} electrons B) 6.25×10^{18} electrons

C) 6.25×10^8 electrons D) 6.25×10^{12} electrons

Answer: B) 6.25×10^{18} electrons

37. What is the output frequency of the pulsating DC in a two diode fullwave rectifier?

A) Double the input A/C frequency B) Three times the input A/C frequency

C) Same frequency of the A/C input D) Half of the input A/C frequency

Answer: A) Double the input A/C frequency

38. How many alternating layers are there in IGBT?

A) 4 layers B) 2 layers

C) 3 layers D) Single layer

Answer: A) 4 layers

39. What are the fundamental properties of insulation materials?

A) Length and cross sectional area B) Insulation resistance and dielectric strength

C) Low resistance and thermal heat D) Temperature and electrical hazards

Answer: B) Insulation resistance and dielectric strength

40. What type of feed back is used by the Wein-bridge oscillator to oscillate the signal?

A) Positive feedback B) Negative feedback

C) No feedback D) Both positive and negative feedback

Answer: D) Both positive and negative feedback

41. What is the decimal conversion number for the octal number (2374)₈?

A) (1296)₁₀

B) (1266)₁₀

C) (1286)₁₀

D) (1276)₁₀

Answer: D) (1276)₁₀

42. How the solid state relays are working for increased lifetime?

A) Spark generated during switching B) Slower in operations

C) Bulky profile D) No moving parts to wear and tear

Answer: D) No moving parts to wear and tear

43. What is the use of photo transistor?

A) Used as oscillator B) Used in comparator circuit

C) Used as light controlled switch D) Used as demodulator

Answer: C) Used as light controlled switch

44. Which port is used to connect the HDD on the mother board?

A) IDE port B) Floppy drive port

C) Com 1 port D) Com 2 port

Answer: A) IDE port

45. Which is the package type for the JFET BFW10?

A) TO-82 B) TO-62

C) TO-72 D) TO-92

Answer: C) TO-72

46. What is the code number of TRIAC?

A) BT136 B) 2N2646

C) BFW10 D) 2N1597

Answer: A) BT136

47. What is the purpose of flux in soldering electronic circuit components?

A) Form the oxide layer B) Increase the melting temperature of solder

C) Dissolve the oxide layer on the metal surface D) Reduce the solder cooling time

Answer: C) Dissolve the oxide layer on the metal surface

48. Which is the property of IGBT?

A) High efficiency and fast switching B) Low gate signal

C) Low input impedance D) Significant power consumption

Answer: A) High efficiency and fast switching

49. How power rating is specified for transformers?

A) Horse power (HP) B) Volt ampere (VA)

C) Voltage (V) D) Watts (W)

Answer: B) Volt ampere (VA)

50. What is the common and popular application of U.J.T?

- A) Voltage regulator
- B) Motor speed controller
- C) Multivibrator
- D) Relaxation oscillator

Answer: D) Relaxation oscillator

51. Why the plunger desoldering tool needs periodical cleaning?

- A) To help the joint to be soldered
- B) To remove the flux collected in chamber
- C) To melt the solder quickly
- D) To prevent clogging of the nozzle

Answer: D) To prevent clogging of the nozzle

52. Find the total inductance value of two inductors 10H and 15H of connected in series.

- A) 10 H
- B) 25 H
- C) 15 H
- D) 05 H

Answer: B) 25 H

53. What is the important feature of instrumentation amplifier?

- A) Reduce the output off set voltage
- B) Low gain accuracy
- C) Low gain accuracy
- D) Increase the output voltage

Answer: B) Low gain accuracy

54. Which material conducts electricity?

- A) Glass
- B) Paper
- C) Mica
- D) Copper

Answer: D) Copper

55. Which unit is used to measure capacitance value?

- A) Mho
- B) Ohm
- C) Henry
- D) Farad

Answer: D) Farad

56. Which electrode controls brightness of the image on the screen of oscilloscope?

- A) Focussing electrode
- B) Control grid
- C) Cathode
- D) Anode

Answer: B) Control grid

57. What is the power supply required to operate the most standard TTL ICs properly?

- A) + 1.5v to +2.5V
- B) + 7.5v to + 12V
- C) + 4.75v to + 5.25V
- D) - 1.5v to - 2.5V

Answer: C) + 4.75v to + 5.25V

58. Which fire extinguisher is used to put off class A type of

fire?

- A) Carbon-di-oxide
- B) Dry powdered
- C) Jet of water
- D) Foam type

Answer: C) Jet of water

59. Which voltage level is reached to increase the current through DIAC rapidly?

- A) Break down voltage
- B) Cut in voltage
- C) Zener voltage
- D) Break over voltage

Answer: D) Break over voltage

60. Which component, which reads the command from memory and executes?

- A) Graphics card
- B) Random Access Memory
- C) Processor
- D) Read Only Memory

Answer: B) Random Access Memory

61. Which rechargeable cell is designed with conductive polymer?

- A) Nickel metal hydride cell
- B) Lead acid cell
- C) Gelled electrolyte lead acid cell
- D) Plastic cell

Answer: D) Plastic cell

62. What is the forward voltage for the single colour orange LEDs?

- A) 2.5 V
- B) 0.8 V
- C) 0.5 V
- D) 2 V

Answer: D) 2 V

63. Why the solvent Iso Propyl Alcohol (IPA) is used on the solder joint?

- A) To help the corrosive action
- B) To break down the acid within the joint
- C) Remove residual flux and prevent corrosion
- D) Cleaning before soldering the joint

Answer: C) Remove residual flux and prevent corrosion

64. What is the current gain of common collector amplifier?

- A) Very high
- B) High
- C) Low
- D) Medium

Answer: A) Very high

65. How the flux residue is removed after soldering a joint?

- A) Water
- B) Isopropyl alcohol
- C) Petrol
- D) Organic flux

Answer: B) Isopropyl alcohol

66. What is the use of battery analyzers with rapid-test program?

- A) Test the load current delivered
- B) Indicate the health condition of battery

- C) Test the charging current of battery D) Test the battery life

Answer: B) Indicate the health condition of battery

67. What is the percentage of conductivity of electric current in silver?

- A) 1 B) 0.67
C) 0.56 D) 0.94

Answer: A) 1

68. What is the total voltage of six 1.5 V cells, connected in series?

- A) 9 VDC B) 6 VDC
C) 12 VDC D) 3 VDC

Answer: A) 9 VDC

69. Which circuit photo SCR opto couplers are used?

- A) Counter circuits B) AC powered circuits
C) Amplifier circuits D) DC circuits

Answer: B) AC powered circuits

70. Which is the N - channel FET?

- A) S-terminal connected to positive B) Main current flows through P-doped material
C) Main current flows through N-doped material D) AC supply connected to drain termin

Answer: C) Main current flows through N-doped material

71. What is the disadvantage of the two diode full wave rectifier compared with a bridge rectifier?

- A) Each diode carries half the load current B) The ripple frequency is higher
C) DC output level is higher D) The need of bulky transformer

Answer: D) The need of bulky transformer

72. What is the function of schottky diode BA 157 in SMPS circuit?

- A) Fast recovery diode B) Error amplifier
C) Voltage regulator D) Switching diode

Answer: A) Fast recovery diode

73. What is the switching speed of solid state relays?

- A) 1 to 100 milli seconds B) 1 to 100 nano seconds
C) 1 to 25 nano seconds D) 10 to 60 nano seconds

Answer: B) 1 to 100 nano seconds

74. How batteries are classified based on their working?

- A) Dry cells and alkaline cells B) Primary cells and secondary cells
C) Button cells and lithium cells D) Cylindrical cells and rectangular cells

Answer: B) Primary cells and secondary cells

75. What is the package type for BF 245B?

- A) TO-92 B) TO-102
C) TO-82 D) TO-72

Answer: A) TO-92

76. What is the rated output voltage of a silver oxide cell?

- A) 2.5 VDC B) 4.0 VDC
C) 1.0 VDC D) 1.5 VDC

Answer: D) 1.5 VDC

77. What is the use of screw driver?

- A) Hold the screws B) Tighten or loosen rivets
C) Tighten or loosen screws D) Tighten or loosen bolts

Answer: C) Tighten or loosen screws

78. How many gauge numbers in SWG, changed to double the cross section area of the conductor?

- A) Five gauge sizes increased B) Two gauge sizes decreased
C) Three gauge sizes decreased D) Four gauge sizes increased

Answer: C) Three gauge sizes decreased

79. When does the rosin flux melts in a soldering process?

- A) During the solder is melting B) After the solder melts
C) When the solder is heated D) When the solder is melting

Answer: C) When the solder is heated

80. Why NPN type of transistors are preferred over the PNP type transistors?

- A) NPN has higher switching speed B) Low operating voltage
C) NPN has lower switching speed D) NPN has good bias stability

Answer: A) NPN has higher switching speed

81. At which temperature the 6040 solder start meeting?

- A) 200 Degree Centigrade B) 380 Degree Centigrade
C) 300 Degree Centigrade D) 100 Degree Centigrade

Answer: A) 200 Degree Centigrade

82. What is the maximum emitter to base voltage VEB (max) for the transistor BC 147?

- A) 5V B) 6V
C) 8V D) 4V

Answer: B) 6V

83. What is the process of adding impurities to a pure semi

conductor material?

- A) Etching
- B) Forming
- C) Diffusion
- D) Doping

Answer: D) Doping

84. Which parameter is maintained constant in zener diode?

- A) Current
- B) Resistance
- C) Power
- D) Voltage

Answer: D) Voltage

85. Which ratio of tin-lead combination is used for electronic component soldering work?

- A) 60:40:00
- B) 40:60
- C) 20:40
- D) 63:37:00

Answer: A) 60:40:00

86. What type of packaging is generally used to transistors utilized for low power amplification?

- A) Plastic packaging
- B) Ceramic packaging
- C) Plastic packaging with metal heatsinks
- D) Metal packaging

Answer: A) Plastic packaging

87. What are the uses of simulation softwares?

- A) Design a circuit
- B) Solder and desolder components
- C) Replace defective components
- D) Design and test a circuit

Answer: D) Design and test a circuit

88. How many Op-Amps are fabricated inside the LM 324 IC pack?

- A) Five Op-Amps
- B) Three Op-Amps
- C) Three Op-Amps
- D) Two Op-Amps

Answer: B) Three Op-Amps

89. Which type of amplifier is used to operate the loud speaker?

- A) IF Amplifier
- B) Power Amplifier
- C) RF Amplifier
- D) Voltage Amplifier

Answer: B) Power Amplifier

90. How the mechanical zero error of panel meter is corrected?

- A) By replacing moving coil
- B) By replacing moving coil
- C) Keeping the meter in vertical position
- D) By replacing pointer

Answer: A) By replacing moving coil

91. What is the maximum current ratings of solid state relays available in high power packages?

- A) 40 Amp
- B) 100 Amp

- C) 1 Amp
- D) 10 Amp

Answer: B) 100 Amp

92. What is the name of the ratio of ON-time pulse to the OFF-time pulse of multivibrator?

- A) Control voltage
- B) Pulse repetition
- C) Pulse repetition
- D) Threshold comparator

Answer: B) Pulse repetition

93. Which impurity is added to form P - type semiconductor material?

- A) Phosphorus
- B) Arsenic
- C) Antimony
- D) Gallium

Answer: D) Gallium

94. What is stationary electric charges?

- A) Kinetic charges
- B) Static charges
- C) Chemical charges
- D) Electrical charges

Answer: B) Static charges

95. Which battery is made from non-toxic materials?

- A) Lithium ion (Li-Ion)
- B) Nickel metal hydride (NiMH)
- C) Lithium polymer (Li-Poly)
- D) Nickel cadmium (Nicaid)

Answer: B) Nickel metal hydride (NiMH)

96. Which electrical property opposes the flow of electrons?

- A) Current
- B) Power
- C) Voltage
- D) Resistance

Answer: D) Resistance

97. How the single strand wire is called?

- A) Flexible wire
- B) Multi strand wire
- C) Hook up wire
- D) Twisted wire

Answer: C) Hook up wire

98. Which band is used for UHF in International Telecommunication System?

- A) Band 9
- B) Band 6
- C) Band 11
- D) Band 4

Answer: A) Band 9

99. How the gas and liquefied gases are classified

- A) Class A fire
- B) Class C fire
- C) Class D fire
- D) Class B fire

Answer: D) Class B fire

100. What is the purpose of using positive feed back in amplifiers?

- A) To produce demodulation
- B) To produce modulation

C) To produce multiplexion D) To produce oscillation

Answer: D) To produce oscillation
