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Code: 8618

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

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

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

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

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

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

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

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

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

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

6. Which parameter is measured by a multimeter?

- A) Voltage (Correct)** B) Energy
 C) Frequency D) Time duration

7. Which instrument used to measure resistance, capacitance and inductance?

- A) LCR bridge (Correct)** B) Wein bridge
 C) Kelvin bridge D) Wheatstone bridge

8. Which function control in CRO, adjust the trace sharper?

- A) Focus (Correct)** B) Intensity
 C) Time/Div trigger D) Amplitude (V/Div)

9. Which meter uses a moving coil for measurement?

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

10. Which meter movement is not affected by stray magnetic fields?

- A) PMMC meter (Correct)** B) Thermo couple meter
 C) MI meter - attraction type D) MI meter - Repulsion type

11. Which frame is used for winding the coil of PMMC meter?

- A) Steel frame B) Wooden frame
 C) Ceramic frame **D) Aluminium frame (Correct)**

12. How power rating is specified for transformers?

- A) Watts (W) B) Voltage (V)
C) Volt ampere (VA) (Correct) D) Horse power (HP)

13. Which component opposes any change in current?

- A) Diode B) Resistor
C) Inductor (Correct) D) Capacitor

14. What is the unit of inductance?

- A) Joule B) Farad
C) Henry (Correct) D) Watts

15. Which value is equal to one picofarad?

- A) 106 Farad B) 1012 Farad
 C) 10-6 Farad **D) 10-12 Farad (Correct)**

16. Which factor determines the inductance value?

- A) Material of the coil **B) Diameter of the coil (Correct)**
 C) Frequency of the current D) Current flow through the coil

17. What is the colour code for 100 Ohm resistor?

- A) Brown, black, red B) Black, brown, black
C) Brown, black, brown (Correct) D) Brown, brown, brown

18. Which property of the capacitor stores electrical energy in electrostatic field?

- A) Dielectric B) Capacitance
 C) Stray capacitance **D) Capacitive reactance (Correct)**

19. Which unit is used to measure capacitance value?

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

20. Which meter is used to find the exact resistance value of resistors?

- A) Ammeter
B) Volt meter
C) Ohm meter (Correct)
D) Watt meter

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

- A) 6.666 Ohms (Correct)**
B) 66.66 Ohms
C) 666.6 Ohms
D) 6666 Ohms

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

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

23. What is the name of effect of changing current in one coil, induces EMF in nearby coil?

- A) Coupling
B) Induction
C) Self induction
D) Mutual induction (Correct)

24. Why the transformer core is made as thin laminations?

- A) To minimize eddy current losses (Correct)**
B) To increase the hysteresis losses
C) To maximize eddy current losses
D) To increase core saturation losses

25. How the gas and liquefied gases are classified

- A) Class A fire
B) **Class B fire (Correct)**
C) Class C fire
D) Class D fire

26. Which fire extinguisher is used to put off class C type of fire?

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

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

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

28. What is the shape of mandatory signs?

- A) Square
B) **Circular (Correct)**
C) Triangular
D) Rectangular

29. What is the shape of warning sign board?

- A) Square shape
B) Circular shape
C) Triangular shape (Correct)
D) Hexagonal shape

30. Which class of fire is classified involving metals?

- A) Class A
B) Class B
C) Class C
D) Class D (Correct)

31. What is the use of screw driver?

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

32. Which is the maximum size of drill bit used in electrical hand drilling machine?

- A) 0.35 mm
B) 1.5 mm
C) 3.5 mm
D) 6.5 mm (Correct)

33. What is the first step to rescue the person in electrical contact?

- A) Break the contact
B) Call the doctor
C) Switch OFF power supply (Correct)
D) Pull the person from electrical contact

34. What is the reason for electric fire?

- A) Deviation
B) Open circuit
C) Overloading (Correct)
D) Proper earthing

35. What is the cause of injuring at the time of lifting a load?

- A) Heavy load
B) Falling object
C) Object striting the load
D) Wrong lifting technique (Correct)

36. Electrical conductivity of gold is

- A) 56%
B) **67% (Correct)**
C) 94%
D) 100%

37. What is the unit of electric charge?

- A) Volts
B) Hertz
C) Ampere
D) Coulomb (Correct)

38. Which material contains eight electrons in valency layer?

- A) Insulators (Correct)**
B) Conductors
C) Semiconductors
D) Intrinsic semiconductors

39. Which electrical parameter opposes the flow of electrons?

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

40. How the single strand wire is called?

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

41. What is the purpose of covering provided over the electrical conductor?

- A) Increase current flow B) Reduce current flow
C) Decrease voltage rating **D) Protection against weather (Correct)**

42. Which material conducts electricity?

- A) Mica B) Paper
C) Glass **D) Copper (Correct)**

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

- A) 6.25×10^8 electrons B) 6.25×10^{12} electrons
C) 6.25×10^{16} electrons **D) 6.25×10^{18} electrons (Correct)**

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

- A) 0.56 B) 0.67
C) 0.94 **D) 1 (Correct)**

45. Which metal has very good conductivity to the electric current?

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

46. Which materials are used for semiconductor?

- A) Gallium and indium B) Silver and aluminium
C) Arsenic and antimony **D) Silicon and germanium (Correct)**

47. What is the purpose of standard wire gauge (SWG)?

- A) Measure current B) Measure voltage
C) Measure diameter of wire (Correct) D) Measure insulation of wire

48. Which tool is used for the simplest method of skinning wires?

- A) Electrician's knife (Correct)** B) Manual wire stripper

- C) Thermal wire stripper D) Mechanical wire stripper

49. What is the name of the pair of metal strips used in battery cell?

- A) Cathode B) Electrolyte
C) Electrodes (Correct) D) Carbon rod

50. Which electrolyte is used in lead-acid battery?

- A) Zinc chloride **B) Sulphuric acid (Correct)**
C) Alkaline solution D) Potassium hydroxide solution

51. How batteries are classified?

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

52. What is the unit of electric charge?

- A) Volts B) Hertz
C) Ampere **D) Coulomb (Correct)**

53. How batteries are classified based on their working?

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

54. What is the range of current rating of lead acid batteries used in automobiles?

- A) 5 to 10 Amp B) 10 to 25 Amp
C) 2.5 to 4.5 Amp **D) 100 to 400 Amp (Correct)**

55. Which energy is converted by the battery to produce electricity?

- A) Electrical energy into light energy **B) Chemical energy into electrical energy (Correct)**
C) Mechanical energy into electrical energy D) Electrical energy into mechanical energy

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

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