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Score: 37/56 (66.07%)

Code: 3503

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

- A) Steel bearings B) Bush bearings (Incorrect)
C) Jewelled bearings 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 (Incorrect) B) Band 6
C) Band 9 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** B) Intensity
C) Time/Div trigger (Incorrect) 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** B) Thermo couple meter
C) MI meter - attraction type (Incorrect) 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 D) Capacitor (Incorrect)

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**
C) Frequency of the current (Incorrect) 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 (Incorrect)
C) Ohm meter
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 (Incorrect)
B) Induction
C) Self induction
D) Mutual induction

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**
C) Class C fire (Incorrect)
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 (Incorrect)
D) 6.5 mm

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
D) Proper earthing (Incorrect)

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% (Incorrect)
B) **67%**
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**
B) Conductors
C) Semiconductors
D) Intrinsic semiconductors (Incorrect)

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**
D) Multi strand wire (Incorrect)

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

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

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 (Incorrect)
C) 0.94
D) **1**

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**
B) Manual wire stripper (Incorrect)

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 (Incorrect)
C) **Electrodes**
D) Carbon rod

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

- A) Zinc chloride (Incorrect)
B) **Sulphuric acid**
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