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**Score: 27/56 (48.21%)**

**Code: 2902**

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

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

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

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

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**                        D) Focussing electrode  
 (Incorrect)

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

- A) Band 4                                  B) Band 6 (Incorrect)  
**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 (Incorrect)                **B) PMMC meter**  
 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  
 (Incorrect)  
 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) (Incorrect)  
**C) Volt ampere (VA)**                      D) Horse power (HP)

13. Which component opposes any change in current?

- A) Diode                                      B) Resistor (Incorrect)  
**C) Inductor**                                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**  
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 (Incorrect)        B) Black, brown, black  
**C) Brown, black, brown**                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  
**C) Farad (Correct)**

B) Ohm  
D) Henry

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

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

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

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

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

A) 05 H  
C) 15 H  
B) 10 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  
C) Self induction (Incorrect)  
B) Induction  
**D) Mutual induction**

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

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

25. How the gas and liquefied gases are classified

A) Class A fire (Incorrect)  
C) Class C fire  
**B) Class B fire**  
D) Class D fire

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

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

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

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

28. What is the shape of mandatory signs?

A) Square  
C) Triangular  
**B) Circular (Correct)**  
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  
C) Class C  
B) Class B  
**D) Class D (Correct)**

31. What is the use of screw driver?

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

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

A) 0.35 mm  
C) 3.5 mm  
B) 1.5 mm (Incorrect)  
**D) 6.5 mm**

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

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

34. What is the reason for electric fire?

A) Deviation  
**C) Overloading**  
B) Open circuit  
D) Proper earthing (Incorrect)

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

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

36. Electrical conductivity of gold is

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

37. What is the unit of electric charge?

A) Volts (Incorrect)  
C) Ampere  
B) Hertz  
**D) Coulomb**

38. Which material contains eight electrons in valency layer?

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

39. Which electrical parameter opposes the flow of electrons?

A) Power  
C) Current (Incorrect)  
B) Voltage  
**D) Resistance**

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)  $6.25 \times 10^8$  electrons            B)  $6.25 \times 10^{12}$  electrons  
C)  $6.25 \times 10^{16}$  electrons (Incorrect)        **D)  $6.25 \times 10^{18}$  electrons**

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

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

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

- A) Gold                                    B) Copper (Incorrect)  
**C) Silver**                                  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  
C) Thermal wire stripper (Incorrect)    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                        **B) Sulphuric acid**  
C) Alkaline solution                    D) Potassium hydroxide solution (Incorrect)

51. How batteries are classified?

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

52. What is the unit of electric charge?

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

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**  
C) Mechanical energy into electrical energy (Incorrect)    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