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**Score: 24/56 (42.86%)**

**Code: 8578**

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

- A) Steel bearings (Incorrect)    B) Bush bearings  
**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 (Incorrect)    **D) Permanent Magnet Moving Coil meter**

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

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

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

- A) Anode (Incorrect)    B) Cathode  
**C) Control grid**    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 (Incorrect)  
 C) Time/Div trigger    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 (Incorrect)    **D) Aluminium frame**

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 (Incorrect)    B) Farad  
**C) Henry**    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 (Incorrect)  
 C) Stray capacitance    **D) Capacitive reactance**

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

25. How the gas and liquefied gases are classified

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

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**  
C) Dry powdered (Incorrect)  
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 (Incorrect)  
C) Class C  
**D) Class D**

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 (Incorrect)  
B) Falling object  
C) Object striking the load  
**D) Wrong lifting technique**

36. Electrical conductivity of gold is

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

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 (Incorrect)  
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**  
D) Multi strand wire (Incorrect)

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

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

42. Which material conducts electricity?

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

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

- A) 6.25 x 10<sup>8</sup> electrons      B) 6.25 x 10<sup>12</sup> electrons  
C) 6.25 x 10<sup>16</sup> electrons (Incorrect)      **D) 6.25 x 10<sup>18</sup> electrons**

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**      D) Measure insulation of wire (Incorrect)

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

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 (Incorrect)      **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 (Incorrect)  
C) 2.5 to 4.5 Amp      **D) 100 to 400 Amp**

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