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Score: 22/56 (39.29%)

Code: 7427

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 (Incorrect)                      B) Position Magnet Moving Coil meter  
 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 (Incorrect)                      **B) Square wave**  
 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  
**C) Band 9 (Correct)**                      D) Band 11

6. Which parameter is measured by a multimeter?

- A) Voltage**                      B) Energy  
C) Frequency (Incorrect)                      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                      D) Amplitude (V/Div) (Incorrect)

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 (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 (Incorrect)  
 C) 10-6 Farad                      **D) 10-12 Farad**

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 (Incorrect)                      B) Capacitance  
 C) Stray capacitance                      **D) Capacitive reactance**

19. Which unit is used to measure capacitance value?

- A) Mho  
**C) Farad**
- B) Ohm  
D) Henry (Incorrect)

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

25. How the gas and liquefied gases are classified

- A) Class A fire  
C) Class C fire (Incorrect)
- 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**
- B) Jet of water  
D) Carbon-di-oxide (Incorrect)

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 (Incorrect)  
C) Triangular
- B) Circular**  
D) Rectangular

29. What is the shape of warning sign board?

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

30. Which class of fire is classified involving metals?

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

31. What is the use of screw driver?

- A) Hold the screws (Incorrect)  
C) Tighten or loosen bolts
- B) Tighten or loosen screws**  
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 (Incorrect)  
D) Proper earthing

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

- A) Heavy load  
C) Object striting 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  
C) Ampere
- B) Hertz (Incorrect)  
**D) Coulomb**

38. Which material contains eight electrons in valency layer?

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

39. Which electrical parameter opposes the flow of electrons?

- A) Power  
C) Current
- B) Voltage (Incorrect)  
**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
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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**
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42. Which material conducts electricity?  
 A) Mica B) Paper  
 C) Glass **D) Copper (Correct)**
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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**
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44. What is the percentage of conductivity of electric current in silver?  
 A) 0.56 B) 0.67  
 C) 0.94 **D) 1 (Correct)**
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45. Which metal has very good conductivity to the electric current?  
 A) Gold (Incorrect) B) Copper  
**C) Silver** D) Aluminium
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46. Which materials are used for semiconductor?  
 A) Gallium and indium B) Silver and aluminium  
 C) Arsenic and antimony **D) Silicon and germanium (Correct)**
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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
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48. Which tool is used for the simplest method of skinning wires?  
**A) Electrician's knife** B) Manual wire stripper
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- C) Thermal wire stripper **D) Mechanical wire stripper (Incorrect)**
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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
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50. Which electrolyte is used in lead-acid battery?  
 A) Zinc chloride **B) Sulphuric acid (Correct)**  
 C) Alkaline solution D) Potassium hydroxide solution
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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
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52. What is the unit of electric charge?  
 A) Volts B) Hertz  
 C) Ampere **D) Coulomb (Correct)**
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53. How batteries are classified based on their working?  
 A) Dry cells and alkaline cells **B) Button cells and lithium cells (Incorrect)**  
**C) Primary cells and secondary cells** D) Cylindrical cells and rectangular cells
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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**
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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
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56. What is the total voltage of six 1.5 V cells, connected in series?  
 A) 3 VDC B) 6 VDC  
**C) 9 VDC** D) 12 VDC (Incorrect)
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