

**Student: Preethamkumar**

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

**Code: 5974**

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                      **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**                      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 (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  
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) (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                      D) Current flow through the coil (Incorrect)

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  
**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**

B) Volt meter (Incorrect)  
D) Watt meter

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

**A) 6.666 Ohms**  
C) 666.6 Ohms (Incorrect)

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

B) Induction  
**D) Mutual induction (Correct)**

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

**A) To minimize eddy current losses (Correct)**  
C) To maximize eddy current losses

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  
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 (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 (Incorrect)

**B) Jet of water**  
D) Carbon-di-oxide

28. What is the shape of mandatory signs?

A) Square  
C) Triangular

**B) Circular**  
D) Rectangular (Incorrect)

29. What is the shape of warning sign board?

A) Square shape

B) Circular shape

**C) Triangular shape**

D) Hexagonal shape (Incorrect)

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  
C) Tighten or loosen bolts (Incorrect)

**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  
**D) 6.5 mm (Correct)**

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 (Incorrect)

B) Falling object  
**D) Wrong lifting technique**

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**  
C) Semiconductors

B) Conductors  
D) Intrinsic semiconductors (Incorrect)

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            **D)  $6.25 \times 10^{18}$  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)**  
 (Incorrect)
- 
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              **D) Mechanical wire stripper (Correct)**
- 
49. What is the name of the pair of metal strips used in battery cell?  
 A) Cathode (Incorrect)                B) Electrolyte  
**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        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 (Incorrect)  
 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
-