

**Student: Preetham**

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

**Code: 0274**

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  
 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**  
 C) Saw tooth wave (Incorrect)  
 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 (Incorrect)  
 B) Band 6  
**C) Band 9**  
 D) Band 11

6. Which parameter is measured by a multimeter?

- A) Voltage**  
 B) Energy  
 C) Frequency  
 D) Time duration (Incorrect)

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  
 C) MI meter - attraction type  
 D) MI meter - Repulsion type (Incorrect)

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 (Correct)**  
 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 (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**  
C) 666.6 Ohms  
B) 66.66 Ohms  
D) 6666 Ohms (Incorrect)

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**  
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  
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 (Correct)**  
D) Carbon-di-oxide

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  
**C) Triangular shape**  
B) Circular shape (Incorrect)  
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  
**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 (Incorrect)  
C) Object striting the load  
B) Falling object  
**D) Wrong lifting technique**

36. Electrical conductivity of gold is

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

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

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  
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  
B) 0.67 (Incorrect)  
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**  
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

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

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  
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 (Incorrect)  
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 (Incorrect)  
C) **9 VDC**  
D) 12 VDC