

Duration: 60 Mins

Total Marks: 25

Q.ID: ITISKILL07829P

1. Which frame is used for winding the coil of PMMC meter?

- A) Ceramic frame B) Steel frame
C) Wooden frame D) Aluminium frame

Answer: D) Aluminium frame

2. In which analog meter the battery is provided?

- A) Ammeter B) Voltmeter
C) Ohm meter D) Watt meter

Answer: C) Ohm meter

3. Why the soft iron pieces in the moving iron meter is tongue shaped?

- A) To damp the oscillations B) To generate heat
C) To produce magnetic attraction D) To achieve uniformity of scale

Answer: D) To achieve uniformity of scale

4. Which instrument used to measure resistance, capacitance and inductance?

- A) Wein bridge B) Wheatstone bridge
C) LCR bridge D) Kelvin bridge

Answer: C) LCR bridge

5. Which band of frequency is used for RADAR in frequency spectrum allotted by the International Telecommunication Union (ITU)?

- A) ITU band - 6 B) ITU band - 8
C) ITU band - 4 D) ITU band - 10

Answer: D) ITU band - 10

6. Which parameter is measured by a multimeter?

- A) Time duration B) Frequency
C) Energy D) Voltage

Answer: D) Voltage

7. Which characteristics enable the deflection of pointer in the attraction type moving iron meter?

- A) Deflecting and controlling torques are B) Deflection is inversely proportional to current
C) Weight of the soft iron pieces D) Deflection is independent of current direction

Answer: D) Deflection is independent of current direction

8. Which parameter is used in the working of moving coil meter?

- A) Permanent magnetic fields B) Spring control
C) Eddy current damping D) Stray magnetic fields

Answer: A) Permanent magnetic fields

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

- A) Control grid B) Focussing electrode
C) Anode D) Cathode

Answer: A) Control grid

10. What is the name of the procedure carried out to ensure the trustworthy standards of the measuring instrument?

- A) Calibration B) Testing standards
C) Re-alignment D) Range test

Answer: A) Calibration

11. How the accuracy of amplitude and frequency measured by CRO is checked?

- A) By sine wave signal B) By built-in calibration signal
C) By function generator D) By complex wave form

Answer: B) By built-in calibration signal

12. Which torque is used in PMMC meter movement?

- A) Moderate torque B) Insufficient torque
C) High torque D) Low torque

Answer: A) Moderate torque

13. Which meter movement is not affected by stray magnetic fields?

- A) MI meter - attraction type B) PMMC meter
C) MI meter - Repulsion type D) Thermo couple meter

Answer: B) PMMC meter

14. What is the purpose of damping torque in PMMC meter?

- A) Control the magnetic field B) Control the jewel bearing
C) Control the swinging of the coil D) Control the pivot point

Answer: C) Control the swinging of the coil

15. In which arrangement the high value of resistor is connected to extend the range of voltmeter?

- A) Star B) Delta
C) Series D) Parallel

Answer: C) Series

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

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

Answer: C) Jewelled bearings

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

- A) Band 4
- B) Band 11
- C) Band 6
- D) Band 9

Answer: D) Band 9

18. How the sensitivity of voltmeter is determined?

- A) Meter coil resistance
- B) Ohms per volt rating
- C) FSD current
- D) Maximum voltage measurement

Answer: B) Ohms per volt rating

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

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

Answer: A) Permanent Magnet Moving Coil meter

20. What is the advantage of using digital multimeter?

- A) Accuracy
- B) Logarithmic scale
- C) Easy portability
- D) Linear scale

Answer: A) Accuracy

21. Which control is used in repulsion type moving iron instrument to keep the pointer at zero position?

- A) Spring control
- B) Air damping control
- C) Magnetic attraction control
- D) Magnetic repulsion control

Answer: A) Spring control

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

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

Answer: B) Square wave

23. Which function control in CRO, adjust the trace sharper?

- A) Intensity
- B) Time/Div trigger
- C) Amplitude (V/Div)
- D) Focus

Answer: D) Focus

24. Find the value of shunt resistance required for 1 mA meter to extend the range and measure 10 mA ($R_M = 27 \text{ Ohm}$) ?

- A) 1 Ohm
- B) 3 Ohms
- C) 4 Ohms
- D) 2 Ohms

Answer: B) 3 Ohms

25. Which meter uses a moving coil for measurement?

- A) MI attraction type
- B) PMMC meter
- C) MI repulsion type
- D) LCR meter

Answer: B) PMMC meter