

Duration: 30 Mins

Total Marks: 25

Q.ID: ITISKILL9262HU

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

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

Answer: D) LCR bridge

2. Which meter uses a moving coil for measurement?

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

Answer: B) PMMC meter

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

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

Answer: B) Jewelled bearings

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

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

Answer: C) Band 9

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

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

Answer: C) By built-in calibration signal

6. How the sensitivity of voltmeter is determined?

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

Answer: D) Ohms per volt rating

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

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

Answer: C) Spring control

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

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

Answer: A) Aluminium frame

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

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

Answer: A) Calibration

10. In which analog meter the battery is provided?

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

Answer: D) Ohm meter

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

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

Answer: B) Series

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

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

Answer: D) Deflection is independent of current direction

13. Find the value of shunt resistance required for 1 mA meter to extend the range and measure 10 mA (RM = 27 Ohm) ?

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

Answer: B) 3 Ohms

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

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

Answer: C) PMMC meter

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

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

Answer: C) ITU band - 10

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

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

Answer: C) Permanent magnetic fields

17. What is the advantage of using digital multimeter?

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

Answer: D) Accuracy

18. Which parameter is measured by a multimeter?

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

Answer: B) Voltage

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

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

Answer: C) Control grid

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

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

Answer: D) Control the swinging of the coil

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

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

Answer: A) Square wave

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

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

Answer: C) To achieve uniformity of scale

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

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

Answer: A) Focus

24. Which torque is used in PMMC meter movement?

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

Answer: C) Moderate torque

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

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

Answer: B) Permanent Magnet Moving Coil meter