

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL9262HU

Student Name: _____ Roll No: _____

1. 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

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

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

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

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

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

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

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

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

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

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

7. What is the advantage of using digital multimeter?

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

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

- A) ITU band - 10
C) ITU band - 6

- B) ITU band - 8
D) ITU band - 4

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

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

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

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

11. Which meter uses a moving coil for measurement?

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

12. Which torque is used in PMMC meter movement?

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

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

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

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

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

15. Which parameter is measured by a multimeter?

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

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

- A) Gun metal bearings B) Bush bearings

C) Jewelled bearings D) Steel bearings

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

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

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

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

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

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

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

20. In which analog meter the battery is provided?

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

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

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

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

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

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

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

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

25. How the sensitivity of voltmeter is determined?

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