Attend all questions
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3rd chapter revision test

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Question Paper

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Score: 15/25 (60.00%)

Code: 8722

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
C) Principle Magnet Moving Coil meter
D) Permanent Magnet Moving Coil meter (Correct)

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

A) Sine wave
B) Square wave
C) Saw tooth wave
D) Triangular wave (Incorrect)

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

A) Anode (Incorrect)
B) Cathode
C) Control grid
D) Focussing electrode

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

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

6. Which parameter is measured by a multimeter?

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

7. Which torque is used in PMMC meter movement?

A) Low torque
B) High torque (Incorrect)
C) Moderate torque
D) Insufficient torque

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

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

9. 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) 2 Ohms
C) 3 Ohms (Correct)
D) 4 Ohms

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

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

11. In which analog meter the battery is provided?

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

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

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

13. Which meter uses a moving coil for measurement?

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

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

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

15. What is the advantage of using digital multimeter?

A) Accuracy
B) Linear scale
C) Easy portability
D) Logarithmic scale (Incorrect)

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

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

17. 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) Deflection is independent of current direction (Correct)
D) Deflecting and controlling torques are

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

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

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

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

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

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

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

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

22. 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 (Correct)
D) To produce magnetic attraction

23. How the sensitivity of voltmeter is determined?

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

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

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

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

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