

Gurukula iti kollegala

EM

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Attempt No.	#1	Completion Time	12:03 PM
Rank	#16	Total Questions	25

8 SCORE

25 MAX MARKS

8 CORRECT

17 INCORRECT

Answer Review

Q1 **INCORRECT** Which bearing is supporting the shaft of moving coil assembly in a PMMC instrument?

A. Steel bearings

B. Bush bearings

C. Jewelled bearings ☐

D. Gun metal bearings ☐

Q2 **INCORRECT** 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 ☐

Q3 **CORRECT** Which type of wave is generated in Schmitt trigger circuit?

A. Sine wave

B. Square wave ☒

C. Saw tooth wave

D. Triangular wave

Q4 **INCORRECT** Which electrode controls brightness of the image on the screen of oscilloscope?

A. Anode

B. Cathode

C. Control grid ☒

D. Focussing electrode ☐

Q5 **INCORRECT** Which band is used for UHF in International Telecommunication System?

A. Band 4

B. Band 6

C. Band 9 ☒

D. Band 11 ☐

Q6 **INCORRECT** Which parameter is measured by a multimeter?

A. Voltage ☒

B. Energy

C. Frequency ☐

D. Time duration

Q7 **CORRECT** Which torque is used in PMMC meter movement?

- A. Low torque
- B. High torque
- C. Moderate torque ☒
- D. Insufficient torque

Q8 **INCORRECT** Which instrument used to measure resistance, capacitance and inductance?

- A. LCR bridge ☒
- B. Wein bridge
- C. Kelvin bridge ☐
- D. Wheatstone bridge

Q9 **CORRECT** 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. 2 Ohms
- C. 3 Ohms ☒
- D. 4 Ohms

Q10 **INCORRECT** In which arrangement the high value of resistor is connected to extend the range of voltmeter?

- A. Star
- B. Delta
- C. Series ☒
- D. Parallel ☐

Q11 **INCORRECT** In which analog meter the battery is provided?

A. Ammeter

B. Voltmeter

C. Ohm meter ☐

D. Watt meter ☐

Q12 **CORRECT** Which function control in CRO, adjust the trace sharper?

A. Focus ☐

B. Intensity

C. Time/Div trigger

D. Amplitude (V/Div)

Q13 **INCORRECT** Which meter uses a moving coil for measurement?

A. LCR meter ☐

B. PMMC meter ☐

C. MI repulsion type

D. MI attraction type

Q14 **INCORRECT** 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 ☐

Q15 **INCORRECT** What is the advantage of using digital multimeter?

A. Accuracy ☐

B. Linear scale

C. Easy portability ☐

D. Logarithmic scale

Q16 **INCORRECT** 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 ☐

Q17 **INCORRECT** 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 ☐

D. Deflecting and controlling torques are

Q18 **INCORRECT** 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 ☐

Q19 **CORRECT** 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 repulsion control

D. Magnetic attraction control

Q20 **INCORRECT** Which frame is used for winding the coil of PMMC meter?

A. Steel frame

B. Wooden frame

C. Ceramic frame ☐

D. Aluminium frame ☐

Q21 **INCORRECT** 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 ☐

Q22 **CORRECT** 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

Q23 **CORRECT** How the sensitivity of voltmeter is determined?

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

Q24 **INCORRECT** What is the name of the procedure carried out to ensure the trustworthy standards of the measuring instrument?

- A. Calibration ☒
- B. Range test
- C. Re-alignment
- D. Testing standards ☐

Q25 **CORRECT** How the accuracy of amplitude and frequency measured by CRO is checked?

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