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## Electrical and Electronics Measurements MCQ

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**Q1. Which of the following is the standard unit for length ?**

- A. Inch
- **B. Meter**
- C. Kilometer
- D. Centimeter

**Q2. The Metric System is also known as .....**

- **A. MKS**
- B. CGS
- C. SI
- D. All of the above

**Q3. There are ..... fundamental units.**

- A. 3
- B. 4
- **C. 7**
- D. 6

**Q4. .... is a variable displacement transducer.**

- **A. potentiometer**

- B. tachometer
- C. synchros
- D. None of the above

**Q5. Resolution of an instrument is .....**

- A. the maximum quantity it can measure
- B. the maximum non linearity
- C. the minimum quantity it can measure
- D. ability to distinguish polarity

**Q6. Which of the following part is called as heart of CRO?**

- A. Sweep generator
- B. Trigger circuit
- C. CRT
- D. Amplifier

**Q7. Which of the following is the measurement range of digital voltmeter?**

- A. 1V to 1KV
- B. 1V to 1MV
- C. 1KV to 1MV
- D. 100 KV to 100MV

**Q8. Which of the following is the advantage of passive instrument?**

- A. Accurate
- B. Cheap
- C. Sensitive
- D. Power Supply Not Needed

**Q9. The potential transformers are used to measure large voltage using -**

- A. High range ammeter
- B. High range voltmeter
- C. Low range voltmeter
- D. Low range ammeter

**Q10. A bridge circuit uses ..... method of measurement.**

- A. relative
- B. absolute
- **C. comparison**
- D. differential

**Q11. Which of the following is the main source of error in a null detector?**

- A. wiring resistance
- B. power dissipation
- C. lower current detection ability
- **D. insufficient sensitivity of the null detector**

**Q12. Does Kelvin bridge is used for measurement of low resistance due to contact and lead resistance?**

- **A. Yes**
- B. No

**Q13. Which of the following principles does megger works on?**

- A. kirchhoff's law
- **B. Electromagnetic induction**
- C. Ohm's law
- D. Gauss's law

**Q14. Reciprocal of reluctance is**

- **A. Henry**
- B. Henry/meter
- C. meter/Henry
- D. All of these

**Q15. Who discovered that a current-carrying conductor would move when placed in a magnetic field?**

- A. Gustav Robert Kirchhoff
- B. Hans Christian Orested
- C. **Michael Faraday**
- D. Andre Ampere

**Q16. What is the reading of a fully charged lead-acid battery?**

- A. 1.025-1.075
- B. 1.050-1.350
- C. 1.050-1.350
- D. **1.280-1.300**

**Q17. A portable instrument is like to**

- A. Gravitational damping
- B. **Eddy-current damping**
- C. Pneumatic damping
- D. Fluid friction damping

**Q18. To measure the voltages and currents in the radio frequency range, suitable instrument is**

- A. moving iron type
- B. moving coil type
- C. **electro-thermic type**
- D. electrostatic type

**Q19. In a moving iron type ammeter, the coil has**

- A. **few turns of thick wire**
- B. few turns of thin wire
- C. large number of turns of thin wire
- D. large number of turns of thick wire

**Q20. 132 kV AC voltage can be measured by**

- A. moving iron voltmeter
- B. **electro static voltmeter**

- **C.** moving coil voltmeter
- **D.** hot wire voltmeter

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