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## Voltage, Current and Resistance MCQ Test

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Below is the **Voltage, Current and Resistance MCQ** test that checks your basic knowledge of Voltage, Current and Resistance. This **Voltage, Current and Resistance MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Voltage, Current and Resistance Quiz** Button.

**Q1. The relationship between current, voltage and resistance is expressed by \_\_\_\_\_ Law.**

- A. Newton's
- **B. Ohm's**
- C. Coulomb's
- D. Stefan's

**Q2. Which of the following equation shows the relation between Voltage, current and resistance.**

- A.  $V=IR$
- B.  $V=I/R$
- C.  $R=V/I$
- **D. Both A and C**

**Q3. If current increases than voltage \_\_\_\_\_.**

- **A. increases**
- B. decreases
- C. stable
- D. All of the above

**Q4. Which one is the unit of resistance?**

- **A.  $\Omega$**
- B. Ampere
- C. volt
- D. watt

**Q5. Ampere is the SI unit of \_\_\_\_\_.**

- A. Voltage
- **B. Current**
- C. Resistance
- D. Power

**Q6. \_\_\_\_\_ is the ability for electric charge to flow in a certain path.**

- A. Resistance
- **B. Electrical conductance**
- C. Current
- D. Voltage

**Q7. What is the relation between electric conductance and electric resistance?**

- **A.  $C=1/R$**
- B.  $R=C$
- C.  $C=V/R$
- D. None of the above

**Q8. The conductance of an 8 ohm resistance is \_\_\_\_\_.**

- A. 0.5 mho
- B. 0.15 mho
- **C. 0.125 mho**
- D. 0.25 mho

**Q9. What is the relation between electric charge, current and time?**

- **A.  $Q=It$**
- B.  $Q=I/t$
- C.  $t=QI$

- D. None of the above

**Q10. If there is 6 A of current flows through the filament of a lamp than the how many coulombs of charge move through the filament in 1.75 s?**

- A. 10.5 C
- B. 105 C
- C. 3.4 C
- D. 34 C

**Q11. An inductor is a \_\_\_\_\_ that stores energy in a magnetic field when electric current flows through it.**

- A. passive two-terminal electrical component
- B. active two-terminal electrical component
- C. passive one-terminal electrical component
- D. passive one-terminal electrical component

**Q12. The opposing capacity of materials against the current flow is**

- A. Conductance
- B. Inductance
- C. Susceptance
- D. Resistance

**Q13. The Relation between power, resistance and current is \_\_\_\_\_.**

- A.  $P=I^2/R$
- B.  $P=I^2R$
- C.  $P=VI^2$
- D. None of the above

**Q14. A voltmeter is an instrument used for measuring \_\_\_\_\_ difference between two points in an electric circuit.**

- A. electric potential
- B. electric current
- C. Voltage

- D. None of the above

**Q15. A neutral atom with an atomic number of five has how many electrons?**

- A. 1
- **B. 5**
- C. 4
- D. 3

**Q16. The outermost regions of the atom are called electron shells and It contains the \_\_\_\_\_.**

- **A. electrons**
- B. protons
- C. neutrons
- D. None of the above

**Q17. An ammeter is an electrical instrument used to measure \_\_\_\_\_.**

- A. Voltage
- **B. Current**
- C. Resistance
- D. Power

**Q18. A wiper is the sliding contact in a \_\_\_\_\_.**

- A. Switch
- B. Photoconductive cell
- C. Thermistor
- **D. Potentiometer**

**Q19. Which of the following is not a type of energy source?**

- A. Battery
- B. Solar cell
- **C. Rheo**
- D. Generator

**Q20. The unit of electrical charge is the \_\_\_\_\_.**

- A. Volt
- B. Ampere
- C. Joule
- **D. Coulomb**

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