Quizlet

28 Multiple choice questions

- 1. the energy used by a 1 kilowatt appliance operating for 1 hour
 - a. voltmeter
 - b. motor
 - c. watt (W)
 - d. CORRECT: kilowatt-hour

A+ 100%

- 2. a meter used to measure the potential difference between two points
 - a. voltage (V)
 - b. **CORRECT:** voltmeter
 - c. volt (V)
 - d. motor
- 3. the ratio of the applied voltage across a conductor to the current through it is a constant; R=V/I
 - a. Ohm
 - b. **CORRECT:** Ohm's law
 - c. magnetism
 - d. power (P)
- 4. a measure of the work done per unit charge as a charge is moved between two points in an electric field
 - a. voltage (V)
 - b. potential energy
 - c. CORRECT: potential difference (V)
 - d. positive charge
- 5. a device that changes electrical energy into mechanical (kinetic) energy
 - a. **CORRECT:** motor
 - b. Ohm
 - c. neutral
 - d. voltmeter

- 6. a region around a magnet where a magnetic force would be felt
 - a. magnetic poles
 - b. magnetism
 - c. CORRECT: magnetic field
 - d. line of force
- 7. the sum of the currents into any point in a circuit is equal to the sum of the currents out of that point
 - a. Kirchoff's second (voltage) law
 - b. Ohm's law
 - c. CORRECT: Kirchoff's first (current) law
 - d. Oersted's experiment
- 8. an electric circuit which has only one pathway
 - a. CORRECT: series circuit
 - b. resistance
 - c. parallel circuit
 - d. solenoid
- 9. the property of certain materials that allows them to attract iron objects
 - a. CORRECT: magnetism
 - b. magnetic poles
 - c. neutral
 - d. magnetic field
- 10. the property of a material that makes it difficult for electric charge to flow; R=V/I
 - a. CORRECT: resistance
 - b. neutral
 - c. volt (V)
 - d. voltmeter
- 11. energy due to position or configuration; stored energy
 - a. positive charge
 - b. voltmeter
 - c. CORRECT: potential energy
 - d. potential difference (V)

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12.	the state of no overall electric charge
	a. Ohm
	b. CORRECT: neutral
	c. motor
	d. volt (V)
13.	fuses, circuit breakers, earth-leakage devices that protect users from electrocution
	a. voltmeter
	b. CORRECT: safety devices
	c. solenoid
	d. magnetic poles
14.	a circuit containing more than one pathway for the current
	a. static electricity
	b. power (P)
	c. CORRECT: parallel circuit
	d. series circuit
15.	the time ratio of doing work; P=VI
	a. solenoid
	b. watt (W)
	c. volt (V)
	d. CORRECT: power (P)
16.	a line drawn tangential to the direction of the force on a charge (or mass or magnet) at each point
	a. magnetic field
	b. CORRECT: line of force
	c. neutral
	d. motor
17.	where the magnetism is concentrated in a magnet; always come in pairs

- a. magnetic field
- b. magnetism
- c. CORRECT: magnetic poles
- d. line of force

18. one watt is the power developed when 1 joule of energy is transformed in 1 second a. volt (V) b. voltage (V) c. CORRECT: watt (W) d. power (P) the SI unit of electrical resistance; equal to that resistance which will allow a current of one ampere to flow when 19. there is a potential difference of one volt a. motor b. solenoid c. neutral d. **CORRECT:** Ohm 20. the SI unit of potential difference; the potential difference between two points is one volt if one joule of work is done to move one coulomb of charge between the two points a. voltage (V) b. watt (W) c. power (P) d. CORRECT: volt (V) another name for potential difference a. watt (W) b. volt (V) c. CORRECT: voltage (V) d. voltmeter 22. when the thumb of the right hand points in the direction of conventional current, the fingers curl in the direction of the magnetic field a. line of force b. CORRECT: right-hand grip rule c. negative charge d. magnetic poles

- 23. a coil of wire that acts like a bar magnet when current flows through it
 - a. volt (V)
 - b. motor
 - c. power (P)
 - d. CORRECT: solenoid
- 24. electric charges at rest
 - a. **CORRECT:** static electricity
 - b. parallel circuit
 - c. safety devices
 - d. series circuit
- 25. the sum of the potential drops around a circuit is equal to the sum of the emfs
 - a. Oersted's experiment
 - b. CORRECT: Kirchoff's second (voltage) law
 - c. Ohm's law
 - d. Kirchoff's first (current) law
- 26. charge that will repel an electron
 - a. positive charge
 - b. potential energy
 - c. resistance
 - d. CORRECT: negative charge
- 27. charge that will attract a negative charge; the type of charge found on protons
 - a. potential energy
 - b. CORRECT: positive charge
 - c. voltmeter
 - d. negative charge
- 28. an experiment that showed that a current carrying conductor produces a magnetic field around it
 - a. CORRECT: Oersted's experiment
 - b. potential energy
 - c. Ohm's law
 - d. series circuit