

If 3 amps of current is flowing in a 12volt series circuit, how much resistance is present? - answer-4 Ohms

When a 5 ohm resistor is placed in a 20v series circuit, how much current will flow? - answer-4amps

The ease with which lines of magnetic flux can pass through a material is known as a material's? - answer-Permeability

The sum of all the voltage drops in a series circuit is equal to the? - answer-Source voltage

The total resistance in a series circuit is the _____ of the individual load resistors. - answer-Sum

The _____ dissipated in a series circuit is equal to the sum of the power dissipated in each of the individual load resistors - answer-Total Power

The most widely used circuit arrangement is the _____ circuit - answer-Parallel

The _____ remains the same across all of the paths of a parallel circuit - answer-Voltage

The total resistance of a parallel circuit is _____ than the resistance of any of the paths - answer-Less

As the temperature increases in a material that has a positive temperature coefficient, the resistance will - answer-Increase

If there is an interruption or break in an electrical circuit it is said to be - answer-Open

If there is a path from one terminal of the power source to the other without passing through the load, the circuit is said to be - answer-Shorted

If there is only one path for electrons to flow, the circuit is called - answer-Series circuit

If it becomes necessary to dilute acid to make electrolyte, it is extremely important that you always add the _____ to the _____ and never the other way around. - answer-Acid to the Water

The specific gravity of a lead acid battery is checked with what? - answer-Hydrometer

Battery capacity is measure in - answer-Amp-Hours

The standard rating used to specify battery capacity is the _____ rating - answer-5 hour discharge (AMP hour)

The electrolyte of a ni cad battery is highest when the battery is - answer-In a fully charged condition

What is the likely result of servicing and charging a ni-cad and lead acid batteries together in the same service area? - answer-Contamination of both types of batteries

Spilled ni-cad electrolyte can be neutralized with what? - answer-Boric acid

The two methods for charging a battery are what? - answer-Constant Current method and Constant Voltage method

High charging currents in nickel-cadmium batteries may cause a breakdown of the cellophane like cell separator material, resulting in a condition known as what? - answer-Thermal Runaway

The wave form of AC produced by a rotating generator is called a _____ wave - answer-Sine

True Power in an AC circuit is expressed in - answer-Watts

The time required for one cycle of events to occur is known as the _____ of AC - answer-Period

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A concern in using a test light in diagnosing an electrical problem is: - answer-A test light provide it's own ground. A test light does not tell you how much voltage is present. A test light creates a parallel circuit thus causing increased current flow in the circuit being tested (could damage a sensitive circuit).

Devices which use electrical current to create a magnetic field are called? - answer-Inductors.

In a series circuit the voltage is 12 volts while the resistance is 16 ohms. Technician A says the currently flow will be .75 A. Technician B says the current flow will be 750mA. Who is correct? - answer-Both technician A and technician B.

A standard car battery is made up of: - answer-Six 2.1 volt cells

When performing a heavy load test you should adjust the load placed on the battery to: - answer-Half the CCA (cold cranking amps)

A battery heavy load test should be performed for no longer than: - answer-15 seconds.

An acceptable parasitic drain on a battery is less than: - answer-75mA and 0.075A

When electrical current is passed through a conductor that is wrapped into many loops, a magnetic field is created. The strength of the field may be increased by: - answer-Increased the number of turns or coils of the conductor. Changing the direction of the current flowing through the coils

If the strength of a magnetic field is increased, the voltage induced into a wire moved through it will: - answer-Increase.

Technician A says if a circuit or conductor is tested and shows that it has continuity it will operate correctly. Technician B says a voltage drop test verifies the condition of wiring, switches and connectors. Who is right? - answer-Technician B only.

During battery removal or installation which wire should be disconnected first and reconnected last? - answer-Negative cable should be disconnected first and reconnected last.

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