Automotive Electricity and Electronics, 6th Edition Chapter 13	
Name	
SHORT AN	SWER. Write the word or phrase that best completes each statement or answers the question.
1) H	ow should two capacitors be electrically connected if greater capacitance is needed?
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2) W	Thy is a large capacitor used in some high-powered sound systems?
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3) H	low does a capacitor store an electrical charge?
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4) H	fow can a capacitor be used as a power source?
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5) H	low can a capacitor be used as a noise filter?

Answer Key

Testname: AEE6_SHORT13

- 1) To increase the capacitance, two capacitors should be connected in parallel. Page Ref: 156
- 2) A capacitor can be used to supply electrical power for short bursts in an audio system to help drive the speakers. Woofers and subwoofers require a lot of electrical current that often cannot be delivered by the amplifier itself. Page Ref: 155
- 3) A capacitor stores an electrical charge by using a condenser, such as aluminum foil separated by an insulator, where electrons are stored at a voltage potential.

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- 4) A capacitor can be used as a power source if it is first changed by being connected to an electrical circuit. When the circuit is opened, the capacitor can supply electrical current when it is discharged through a circuit.

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- 5) A capacitor is used on a noise filter because most radio noise is AC and a capacitor passes AC voltage. A capacitor connected to the power lead will then pass the AC voltage to ground through the capacitor without affecting the DC power line.

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