

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) How is a composite camshaft constructed?

2) What is needed for an anaerobic sealer to cure?

3) If an engine at sea level produces 100 horsepower, how many horsepower would it develop at 6,000 feet of altitude?

4) How can the engine block and cylinder heads be repaired if cracked?

5) Why is a cooling system pressurized?

Answer Key

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- 1) Composite camshafts, which use a lightweight tubular shaft with hardened steel lobes press-fitted over the shaft. (The actual production of these camshafts involves placing the lobes over the tube shaft in the correct position. A steel ball is then drawn through the hollow steel tube, expanding the tube and securely locking the cam lobes in position.
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- 2) Anaerobic sealers cure in the absence of air.
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- 3) An engine loses 3% of its power for each 1,000 feet above sea level. Therefore, at 6,000 feet, an engine would lose 18% ($3 \times 6 = 18$) or 18 hp. Therefore, if an engine develops 100 hp at sea level, that same engine will produce 82 hp when operating at 6,000 feet altitude.
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- 4) Engine blocks and cylinder heads can be repaired if cracked by welding or plugging.
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- 5) The cooling system is pressurized because under pressure, the coolant boiling temperature is increased.
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