

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) A six cylinder diesel engine has a bore of 3 inches and a stroke of 4 inches. Calculate the displacement of the engine. 1) _____
A) 226 cubic inches
B) 170 cubic inches
C) 192 cubic inches
D) 145 cubic inches

- 2) The diameter of the _____ is called the bore of the engine. 2) _____
A) Cylinder
B) Head bolt shaft
C) Cam bearings
D) Crankshaft circle

- 3) Technician A says that the intake stroke of a diesel engine draws air and fuel into the combustion chamber. Technician B says that the intake stroke of a diesel engine draws in only air. Which technician is correct? 3) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

- 4) A diesel engine uses _____ to ignite the air/fuel mixture in the combustion chamber. 4) _____
A) A spark plug
B) A park diffuser
C) Heat of combustion
D) Heat of compression

- 5) A diesel engine that uses indirect fuel injection is usually a(an) _____ type of engine. 5) _____
A) Older design
B) Inline
C) Late model
D) Three cylinder

- 6) On a dynamometer, engine _____ is measured and then engine _____ can be calculated. 6) _____
A) Displacement; engine size
B) Weight; length
C) Horsepower; torque
D) Torque; horsepower

- 7) One cylinder of an automotive four-stroke cycle engine completes a cycle every _____. 7) _____
A) 90°
B) 180°
C) 360°
D) 720°

- 8) Technician A says that a crankshaft determines the stroke of an engine. Technician B says that the length of the connecting rod determines the stroke of an engine. Which technician is correct? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 9) When the camshaft of a diesel engine is located in the engine block, the valves are actuated by _____ 9) _____
- A) Pushrods
 - B) Rocker arms
 - C) Bridges
 - D) All of these
- 10) What phase of combustion creates the noise heard in a diesel engine? 10) _____
- A) Slow combustion
 - B) Rapid combustion
 - C) Controlled combustion
 - D) Delayed combustion

Answer Key

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1) B

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2) A

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3) B

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4) D

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5) A

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6) D

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7) D

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8) A

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9) D

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10) B

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