

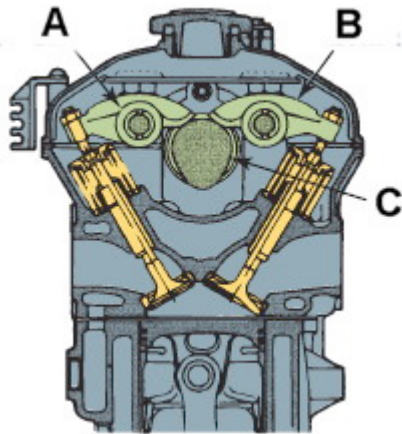
Name \_\_\_\_\_

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

- 1) An 8 cylinder engine with a bore of 4.000 inches and a stroke of 3.000 inches has a displacement of \_\_\_\_\_. 1) \_\_\_\_\_
  - A) 226 cubic inches
  - B) 302 cubic inches
  - C) 350 cubic inches
  - D) 383 cubic inches
  
- 2) How many degrees of CRANKSHAFT rotation are required for a piston to travel from TDC to BDC and return to TDC? 2) \_\_\_\_\_
  - A) 180
  - B) 360
  - C) 90
  - D) 720
  
- 3) Which component is NOT needed in a typical overhead cam engine? 3) \_\_\_\_\_
  - A) Camshaft
  - B) Valve spring
  - C) Rocker arm
  - D) Push rod
  
- 4) A 5.7 liter engine is about what size in cubic inches? 4) \_\_\_\_\_
  - A) 305
  - B) 400
  - C) 426
  - D) 350
  
- 5) An engine with a displacement of 302 cubic inches converts to \_\_\_\_\_ liters (rounded off). 5) \_\_\_\_\_
  - A) 3.7
  - B) 5.0
  - C) 49
  - D) 5.7
  
- 6) The diameter of a cylinder is called the \_\_\_\_\_. 6) \_\_\_\_\_
  - A) Stroke
  - B) Bore
  - C) Diameter
  - D) Radius

7) In this drawing, which item is the camshaft?

7) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) None of these

8) Technician A says that changing connecting rod length changes engine stroke. Technician B says that changing connecting rod length changes the position of the piston in the cylinder. Which technician is correct?

8) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

9) The piston drives the rotating crankshaft by transferring force to the \_\_\_\_\_.

9) \_\_\_\_\_

- A) Valve head
- B) Connecting rod
- C) Push rod
- D) Camshaft

10) All of these are correct EXCEPT \_\_\_\_\_.

10) \_\_\_\_\_

- A) Engines produce higher horsepower at higher altitude
- B) Engines produce lower horsepower at higher altitude
- C) Forced induction reduces the effect of altitude on engine power
- D) Air is less dense and contains less oxygen at higher altitude

## Answer Key

Testname: ENGINE PERF5\_3A

1) B

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2) B

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3) D

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4) D

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5) B

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6) B

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7) C

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8) B

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9) B

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10) A

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