

Name \_\_\_\_\_

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

- 1) The following statements are all correct EXCEPT \_\_\_\_\_. 1) \_\_\_\_\_
  - A) Torque is the measurement of rotational force.
  - B) Torque always results in movement.
  - C) Torque is often expressed in pound-feet.
  - D) All of the above answers are correct.
  
- 2) How many degrees of CRANKSHAFT rotation are needed to complete the four stroke combustion cycle? 2) \_\_\_\_\_
  - A) 180
  - B) 360
  - C) 90
  - D) 720
  
- 3) An engine with a displacement of 302 cubic inches converts to \_\_\_\_\_ liters (rounded off). 3) \_\_\_\_\_
  - A) 3.7
  - B) 4.9
  - C) 49
  - D) 5.7
  
- 4) The ratio of the volume of a cylinder with the piston at BDC to the volume of the cylinder with the piston at TDC is known as \_\_\_\_\_. 4) \_\_\_\_\_
  - A) Compression ratio
  - B) Displacement
  - C) Volume ratio
  - D) None of these
  
- 5) An SOHC V8 engine has how many camshafts? 5) \_\_\_\_\_
  - A) One
  - B) Two
  - C) Three
  - D) Four
  
- 6) 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? 6) \_\_\_\_\_
  - A) Technician A
  - B) Technician B
  - C) Both technicians
  - D) Neither technician

- 7) Torque is expressed in units of \_\_\_\_\_. 7) \_\_\_\_\_  
A) Pound-feet  
B) Pounds per minute  
C) Foot-pounds per minute  
D) Pound-feet per second
- 8) An 8 cylinder engine with a bore of 4.000 inches and a stroke of 3.000 inches has a displacement of \_\_\_\_\_. 8) \_\_\_\_\_  
A) 226 cubic inches  
B) 302 cubic inches  
C) 350 cubic inches  
D) 383 cubic inches
- 9) A rotating force is called \_\_\_\_\_. 9) \_\_\_\_\_  
A) Horsepower  
B) Torque  
C) Combustion pressure  
D) Eccentric movement
- 10) Which component is NOT needed in a typical overhead cam engine? 10) \_\_\_\_\_  
A) Camshaft  
B) Valve spring  
C) Rocker arm  
D) Push rod

## Answer Key

Testname: INTRO\_14A

1) B

Page Ref: 139

2) D

Page Ref: 133

3) B

Page Ref: 138

4) A

Page Ref: 138-139

5) B

Page Ref: 136

6) B

Page Ref: 137

7) A

Page Ref: 139

8) B

Page Ref: 137-138

9) B

Page Ref: 139

10) D

Page Ref: 135