

Automotive Engines 10th

Quiz 9B

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

1. One cylinder of an automotive four-stroke cycle engine completes a cycle every _____. 1. _____
 - A) 90 degrees
 - B) 180 degrees
 - C) 360 degrees
 - D) 720 degrees

2. How many rotations of the crankshaft are required to complete each stroke of a four-stroke cycle engine? 2. _____
 - A) One-fourth
 - B) One-half
 - C) One
 - D) Two

3. Technician A says that the 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? 3. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both Technicians A and B
 - D) Neither Technician A nor B

4. Technician A says that an engine's size is called displacement and represents the volume displaced or swept by all of the pistons in one cycle. Technician B says that engine power is expressed in horsepower and based on the amount of torque or twisting force the engine produces. Which technician is correct? 4. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

5. A normally aspirated automobile engine loses about _____ power per 1000 feet of altitude. 5. _____
 - A) 1%
 - B) 3%
 - C) 5%
 - D) 6%

6. An SOHC V8 engine has how many camshafts? 6. _____
 - A) One
 - B) Two
 - C) Three
 - D) Four

7. The chemical energy in fuel is converted to heat by the burning of the fuel at a controlled rate. This process is called _____. 7. _____
 - A) combustion
 - B) consumption
 - C) power
 - D) torque

8. Horsepower is expressed in units of _____.

- A) pound-feet
- B) foot-pounds
- C) foot-pounds per minute
- D) pound-feet per second

8. _____

9. Technician A says that power is the rate of doing work. Technician B says that as horsepower increases, the time required to do work increases. Which technician is correct?

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

9. _____

10. The diameter of a cylinder is called the _____.

- A) stroke
- B) bore
- C) diameter
- D) radius

10. _____

Answer Key

Testname: ENGINES 10 9B

1. D
Page Ref: 88
2. B
Page Ref: 87
3. A
Page Ref: 90
4. C
Page Ref: 92, 96
5. B
Page Ref: 96
6. B
Page Ref: 89
7. A
Page Ref: 84
8. C
Page Ref: 96
9. A
Page Ref: 95-96
10. B
Page Ref: 90