

Name _____

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

- 1) The diameter of a cylinder is called the _____. 1) _____
 - A) Stroke
 - B) Bore
 - C) Diameter
 - D) Radius

- 2) The volume in the cylinder above the piston when the piston is at the bottom of the stroke (BDC) compared to the volume in the cylinder above the piston when the piston is at the top of the stroke (TDC) is referred to as _____. 2) _____
 - A) Volumetric Efficiency
 - B) Compression Ratio
 - C) Compression Volume
 - D) Brake Mean Effective Pressure

- 3) 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? 3) _____
 - A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

- 4) The coolant flow through the radiator is controlled by the _____. 4) _____
 - A) Size of the passages in the block
 - B) Thermostat
 - C) Cooling Fan(s)
 - D) Water pump

- 5) The metric unit for torque is which of these? 5) _____
 - A) Foot-pound
 - B) Pound-foot
 - C) Newton-meter
 - D) Kilogram-meter

- 6) On a dynamometer, horsepower is calculated by which of these formulae? 6) _____
 - A) Torque \times RPM
 - B) Stroke \times bore \times 55
 - C) Torque \times RPM \div 5252
 - D) Stroke \times bore \times 3300

- 7) Convert 150 horsepower to watts. 150 hp = _____. 7) _____
A) 111.9kW
B) 201.7kW
C) 111,900 W
D) Both A and C
- 8) An SOHC V8 engine has how many camshafts? 8) _____
A) One
B) Two
C) Three
D) Four
- 9) In an Atkinson cycle engine the _____ valve is held open longer than in an Otto cycle engine. 9) _____
A) Intake
B) Exhaust
C) Throttle
D) Timing
- 10) One cylinder of an Otto 4-stroke cycle engine completes a cycle every _____ degrees. 10) _____
A) 90
B) 120
C) 360
D) 720

Answer Key

Testname: ENGINES9_10B

1) B

Page Ref: 99

2) B

Page Ref: 102

3) C

Page Ref: 100, 104

4) B

Page Ref: 92

5) C

Page Ref: 103

6) C

Page Ref: 100

7) D

Page Ref: 103

8) B

Page Ref: 96

9) A

Page Ref: 99

10) D

Page Ref: 94