

Automotive Engines 10th

Quiz 19A

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

1. Why do many port fuel injected engines use long intake runners? 1. _____
 - A) To reduce exhaust emissions
 - B) To heat the incoming air
 - C) To increase high RPM power
 - D) To increase low RPM torque

2. Which of the following is/are terms for a variable intake manifold? 2. _____
 - A) Variable intake system (VIS)
 - B) Variable volume induction (VVI)
 - C) Dual-stage intake (DSI)
 - D) Any of the above

3. The primary function of the muffler is to _____ the exhaust gases. 3. _____
 - A) silence
 - B) cool
 - C) trap
 - D) clean

4. The air filter restriction indicator uses what to detect when it signals to replace the filter? 4. _____
 - A) Number of hours of engine operation
 - B) Number of miles of vehicle travel
 - C) The amount of light that can pass through the filter
 - D) The amount of restriction measured in inches of water

5. Air filters can remove particles and dirt as small as _____. 5. _____
 - A) 5 to 10 microns
 - B) 10 to 25 microns
 - C) 30 to 40 microns
 - D) 40 to 50 microns

6. A cracked exhaust manifold can cause false readings from which of these engine sensors? 6. _____
 - A) Oxygen sensor
 - B) Coolant temperature sensor
 - C) Intake air temperature sensor
 - D) Exhaust temperature sensor

7. The intake manifold of a port fuel-injected engine does which of these? 7. _____
 - A) Uses a heater to heat the intake air
 - B) Uses a leaner air-fuel mixture than TBI
 - C) Contains only fuel
 - D) Contains only air

8. The upper portion of a two part intake manifold is often called the _____. 8. _____
 - A) housing
 - B) lower part
 - C) plenum
 - D) vacuum chamber

9. A variable intake manifold will have _____ intake runners at high RPM for _____ power. 9. _____
A) long; increased
B) short; balanced
C) long; decreased
D) short; increased

10. Technician A says that exhaust manifolds can be made from plastic or stainless steel. Technician B says that many intake manifolds have an EGR valve that regulates the amount of recirculated exhaust that enters the engine in order to increase NO_x emissions. Which technician is correct? 10. _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

Answer Key

Testname: ENGINES 10 19A

1. D
Page Ref: 266
2. D
Page Ref: 267
3. A
Page Ref: 271
4. D
Page Ref: 264
5. B
Page Ref: 263
6. A
Page Ref: 270
7. D
Page Ref: 265
8. C
Page Ref: 266
9. D
Page Ref: 267
10. D
Page Ref: 268-269