

## *Automotive Engines 10th*

### **Quiz 10A**

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

1. Which of these takes place during regeneration in a diesel particulate filter (DPF)? 1. \_\_\_\_\_
  - A) The oxygen sensor is being cleaned
  - B) Soot is being burned
  - C) EGR system is being actively tested
  - D) Catalytic converter is being purged
  
2. The diesel particulate filter in the exhaust system is used to trap \_\_\_\_\_. 2. \_\_\_\_\_
  - A) soot
  - B) fine sand particles
  - C) rust from inside the exhaust system
  - D) CO<sub>2</sub> particles
  
3. Which of these tools is used for checking a diesel injector nozzle for proper spray pattern? 3. \_\_\_\_\_
  - A) Pattern tester
  - B) Scan tool
  - C) Pop tester
  - D) Injector test
  
4. Technician A says that glow plugs are used to help start a diesel engine and are shut off as soon as the engine starts. Technician B says that the glow plugs are turned off as soon as a flame is detected in the combustion chamber. 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. What percent of opacity means that the exhaust is so dark that it completely blocks light from a beam projected through the exhaust smoke? 5. \_\_\_\_\_
  - A) 0%
  - B) 25%
  - C) 50%
  - D) 100%
  
6. The diesel exhaust fluid (DEF) should be refilled \_\_\_\_\_. 6. \_\_\_\_\_
  - A) every day, in the morning with a cold engine
  - B) weekly
  - C) at least once a month
  - D) when the warning light comes on
  
7. The fuel pressure in a common rail diesel injection system can be as high as \_\_\_\_\_. 7. \_\_\_\_\_
  - A) 600 psi
  - B) 60 psi
  - C) 20,000 psi
  - D) 56 psi

8. Which diesel injection system requires the use of a glow plug? 8. \_\_\_\_\_
- A) Indirect injection (IDI)
  - B) Common rail
  - C) Direct injection
  - D) Distributor injection
9. Glow plugs should have high resistance when \_\_\_\_\_ and lower resistance when \_\_\_\_\_. 9. \_\_\_\_\_
- A) cold / warm
  - B) warm / cold
  - C) wet / dry
  - D) dry / wet
10. A diesel engine should produce at least \_\_\_\_\_ psi of compression pressure and all cylinders should be within 50 psi of each other. 10. \_\_\_\_\_
- A) 150
  - B) 250
  - C) 300
  - D) 450

## Answer Key

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