

Name \_\_\_\_\_

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

- 1) On a 3.0 liter VM diesel engine the primary use of the MAF sensor is to make adjustments to \_\_\_\_\_ system operation. 1) \_\_\_\_\_
  - A) EGR
  - B) High-pressure fuel
  - C) DEF
  - D) Air filter
  
- 2) The crankshaft position sensor on the 3.0 liter VM diesel engine is a \_\_\_\_\_. 2) \_\_\_\_\_
  - A) Magneto-resistive sensor
  - B) Hall-effect sensor
  - C) Permanent magnet sensor
  - D) Potentiometer
  
- 3) What is the purpose of the exhaust gas pressure sensor? 3) \_\_\_\_\_
  - A) To measure exhaust back pressure
  - B) To estimate turbocharger speed
  - C) To verify the EGR system is operating properly
  - D) To determine if DPF regeneration is needed
  
- 4) A 3.0 liter VM diesel engine is being discussed. Technician A says that this engine uses diesel exhaust fluid. Technician B says that a 3.0 liter engine is small enough that it does not need diesel exhaust fluid. 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) Where is the low-pressure fuel pump located in the 3.0 liter VM diesel fuel system? 5) \_\_\_\_\_
  - A) On the driver side frame rail
  - B) Inside the primary fuel filter
  - C) Inside the fuel tank
  - D) On the passenger side, front of the engine
  
- 6) The timing system on the 3.0 liter VM diesel engine consists of which of the following? 6) \_\_\_\_\_
  - A) Two timing chains
  - B) Two timing chains and two sets of gears
  - C) One timing chain and two gears
  - D) One timing belt

- 7) During servicing, the cam sensor on a 3.0 liter VM diesel has been left disconnected. What will be the likely result? 7) \_\_\_\_\_
- A) A rough idle
  - B) High idle speed
  - C) A dead battery
  - D) The engine will not start.
- 8) The wide band oxygen sensor is located \_\_\_\_\_ the diesel oxydation catalyst. 8) \_\_\_\_\_
- A) Before
  - B) After
  - C) Inside
  - D) As part of
- 9) The 3.0 liter diesel engine used by Chrysler is manufactured in \_\_\_\_\_. 9) \_\_\_\_\_
- A) Rome
  - B) Romania
  - C) Italy
  - D) Detroit
- 10) Which of these statements is true about the high-pressure fuel pump? 10) \_\_\_\_\_
- A) It is driven by the camshaft and requires timing.
  - B) It is equipped with a cascade overflow valve.
  - C) It is a two-cylinder design.
  - D) All of the above are true.

## Answer Key

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- 1) A  
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- 2) A  
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- 3) B  
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- 4) A  
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- 5) C  
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- 6) B  
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- 7) D  
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- 8) A  
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- 9) C  
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- 10) D  
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