

Name: _____ Date: _____

1. How is power and speed controlled in a diesel engine?
 - A. By the amount of air entering the cylinders
 - B. By a spark ignition system
 - C. By the amount of fuel injected
 - D. By an external regulator

2. What does an indirect injection (IDI) diesel engine use to help start the combustion process?
 - A. A spark plug
 - B. A glow plug
 - C. A heater coil
 - D. An external flame

3. Which part separates water from the diesel fuel?
 - A. Fuel injector
 - B. Fuel filter
 - C. Water–fuel separator
 - D. Fuel pump

4. How can you detect gasoline added to diesel fuel?
 - A. By checking the color
 - B. By testing the specific gravity
 - C. By measuring the temperature
 - D. By checking the viscosity

5. Which of these statements about a diesel engine's vacuum is true?
 - A. It creates a high vacuum due to the throttle.
 - B. It doesn't need any vacuum.
 - C. It creates very little vacuum because it is unthrottled.
 - D. Vacuum is primarily used to power the engine.

6. Which system uses hydraulic actuators and electronic controls to provide precise fuel injection for diesel engines?
 - A. Direct Injection (DI)
 - B. Indirect Injection (IDI)
 - C. High-Pressure Common Rail (HPCR)
 - D. Hydraulic Electronic Unit Injection (HEUI)

7. What is the main function of diesel injector nozzles?
 - A. To cool the engine
 - B. To atomize the diesel fuel
 - C. To filter impurities from the diesel fuel
 - D. To store excess diesel fuel

8. What is the role of glow plugs in diesel engines?

- A. To aid in the ignition of the fuel during cold starts
- B. To filter the exhaust gases
- C. To supply air to the combustion chamber
- D. To increase fuel efficiency

9. Which device helps in reducing the NO_x emissions from diesel engines by converting them into nitrogen and water?

- A. Diesel Exhaust Particulate Filter (DPF)
- B. Diesel Oxidation Catalyst (DOCs)
- C. Selective Catalytic Reduction (SCR)
- D. Diesel Exhaust Fluid (DEF)

10. What is the primary function of a Diesel Exhaust Particulate Filter (DPF)?

- A. To cool the exhaust gases
- B. To capture and store particulate matter from the exhaust
- C. To atomize the diesel fuel
- D. To mix air with the exhaust gases

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Chapter 16

Multiple Choice Quiz B

Answer Key

1. C

2. B

3. C

4. B

5. C

6. D

7. B

8. A

9. C

10. B