

Automotive Engines 10th

Quiz 11B

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

1. The fuel in a CNG fueled vehicle is stored at a pressure as high as 3600 PSI. The CNG is delivered to the mixture control valve at a pressure of _____. 1. _____
 - A) 0.5 PSI
 - B) 4 to 6 PSI
 - C) 150 to 175 PSI
 - D) None of these

2. Abnormal combustion (also called detonation or spark knock) increases both the temperature and _____ inside the combustion chamber? 2. _____
 - A) carbon
 - B) hydrogen
 - C) pressure
 - D) EGR

3. A CNG refueling station pump is designated as a P24 filling station. This means _____. 3. _____
 - A) the pump can refuel at a pressure of up to 2400 PSI
 - B) it will take 24 hours to refuel, using the slow-fill method
 - C) the pump can only deliver 24 gallons at a time
 - D) the CNG is 24% natural gas and 76% propane

4. A flex-fuel vehicle can be identified by _____. 4. _____
 - A) emblems on the side, front, and/or rear of the vehicle
 - B) VECI
 - C) VIN
 - D) Any of the above

5. Technician A says that gasoline is a complex blend of hydrocarbons. Technician B says that gasoline is blended for seasonal usage to achieve the correct volatility for easy starting and maximum fuel economy. Which technician is correct? 5. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

6. Which of these is added to a fuel for testing purposes to avoid problems with the variation of gasoline? 6. _____
 - A) MTBE (methyl tertiary butyl ether)
 - B) Xylene
 - C) Indolene
 - D) TBA (tertiary butyl alcohol)

7. Using E85 can result in which of these? 7. _____
 - A) Increased exhaust emissions
 - B) Reduced fuel economy
 - C) Increased fuel economy
 - D) Decreased exhaust emissions

8. E85 means that the fuel is made from _____. 8. _____
- A) 85% gasoline and 15% ethanol
 - B) 85% ethanol and 15% gasoline
 - C) ethanol that has 15% water
 - D) pure ethyl alcohol
9. When refueling a CNG vehicle, why is it recommended that the tank be filled to a high pressure? 9. _____
- A) The range of the vehicle is increased.
 - B) The cost of the fuel is lower.
 - C) Less of the fuel is lost due to evaporation.
 - D) Both A and C
10. Winter-blend gasoline _____. 10. _____
- A) vaporizes more easily than summer-blend gasoline
 - B) has a higher RVP
 - C) can cause engine driveability problems if used during warm weather
 - D) All of the above

Answer Key

Testname: ENGINES 10 11B

1. A
Page Ref: 132
2. C
Page Ref: 121
3. A
Page Ref: 132
4. D
Page Ref: 129
5. C
Page Ref: 118; 120
6. C
Page Ref: 123
7. B
Page Ref: 128
8. B
Page Ref: 128
9. A
Page Ref: 132
10. D
Page Ref: 120