

1. What is the primary component of biogas?

- a) Methane
- b) Carbon dioxide
- c) Hydrogen
- d) Oxygen

Answer: a) Methane

Explanation: Biogas primarily consists of methane ( $\text{CH}_4$ ), which is the main combustible component responsible for its use as a fuel.

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2. Which process is involved in the formation of biogas?

- a) Fermentation
- b) Combustion
- c) Photosynthesis
- d) Distillation

Answer: a) Fermentation

Explanation: Biogas is produced through the anaerobic digestion of organic matter, such as agricultural waste, sewage, or food waste, by microorganisms in a process called fermentation.

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3. What factor has the most significant impact on biogas formation?

- a) Temperature
- b) pH level
- c) Pressure
- d) Oxygen concentration

Answer: a) Temperature

Explanation: Temperature plays a crucial role in biogas formation as it affects the activity of microorganisms responsible for anaerobic digestion. Optimal temperature ranges between 35°C to 40°C for mesophilic bacteria and 50°C to 60°C for thermophilic bacteria.

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4. Which type of engines can utilize biogas as fuel?

- a) Spark Ignition (SI) engines
- b) Compression Ignition (CI) engines
- c) Both SI and CI engines
- d) None of the above

Answer: c) Both SI and CI engines

Explanation: Biogas can be used as fuel in both Spark Ignition (SI) engines, where ignition occurs by a spark plug, and Compression Ignition (CI) engines, where ignition is initiated by

the heat of compression.

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5. Which gas is the primary constituent of natural gas?

- a) Methane
- b) Carbon dioxide
- c) Nitrogen
- d) Oxygen

Answer: a) Methane

Explanation: Natural gas primarily consists of methane ( $\text{CH}_4$ ), which typically accounts for around 70-90% of its composition.

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6. What is the primary component of hydrogen gas ( $\text{H}_2$ )?

- a) Helium
- b) Hydrogen
- c) Oxygen
- d) Nitrogen

Answer: b) Hydrogen

Explanation: Hydrogen gas ( $\text{H}_2$ ) consists of diatomic molecules composed of two hydrogen

atoms.

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7. Which of the following is a commonly used abbreviation for Liquefied Petroleum Gas?

- a) LNG
- b) LPG
- c) CNG
- d) H<sub>2</sub>

Answer: b) LPG

Explanation: LPG stands for Liquefied Petroleum Gas, which is a common abbreviation used for gases like propane and butane.

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8. In which form is natural gas typically stored and transported?

- a) Liquid
- b) Solid
- c) Gas
- d) Plasma

Answer: c) Gas

Explanation: Natural gas is typically stored and transported in its gaseous form under high

pressure in pipelines or compressed natural gas (CNG) cylinders.

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9. Which property of gaseous fuels is crucial for their efficient combustion in engines?

- a) Density
- b) Viscosity
- c) Ignition temperature
- d) Stoichiometric ratio

Answer: d) Stoichiometric ratio

Explanation: The stoichiometric ratio, which refers to the ideal ratio of air to fuel required for complete combustion, is crucial for efficient combustion of gaseous fuels in engines.

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10. What is the primary safety concern associated with handling gaseous fuels?

- a) Flammability
- b) Corrosiveness
- c) Toxicity
- d) Radioactivity

Answer: a) Flammability

Explanation: The primary safety concern associated with handling gaseous fuels is their

flammability, which poses a risk of fire or explosion if not handled properly.

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