



Name _____ Class _____ Date _____

1 **Petroleum** is primarily a **mixture** of

- A alcohol molecules
- B ester molecules
- C hydrocarbon molecules
- D organic acid molecules



2 By which process is petroleum **separated** into its components according to their different **boiling points**?

- A contact process
- B Haber process
- C fractional distillation
- D cracking

3 What occurs when a **coordinate covalent bond** is formed between nitrogen and hydrogen in the ammonium ion, NH_4^+ ?

- A Hydrogen provides a pair of electrons to be shared with nitrogen.
- B Nitrogen provides a pair of electrons to be shared with hydrogen.



4 What is the **oxidation number** of hydrogen in CaH_2 ?

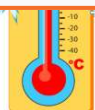
- A +1
- B +2
- C -1
- D -2



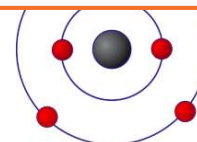
PREVIEW

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- C 273°C and 1 mmHg
- D 273°C and 760 mmHg



- B metallic
- C polar covalent
- D nonpolar covalent

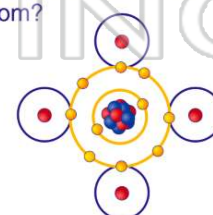


9 What is the **general formula** for the members of the **alkane** series?

- A C_nH_{2n}
- B $\text{C}_n\text{H}_{2n+2}$
- C $\text{C}_n\text{H}_{2n-2}$
- D $\text{C}_n\text{H}_{2n-6}$

10 What is the **maximum number of covalent bonds** that can be formed by one carbon atom?

- A 1
- B 2
- C 3
- D 4





ANSWER KEY

Petroleum is primarily a **mixture** of

- A alcohol molecules
- B ester molecules
- C hydrocarbon molecules
- D organic acid molecules



(C)

By which process is petroleum **separated** into its components according to their different **boiling points**?

- A contact process
- B Haber process
- C fractional distillation
- D cracking

(C)

What occurs when a **coordinate covalent bond** is formed between nitrogen and hydrogen in the ammonium ion, NH_4^+ ?

- A Hydrogen provides a pair of electrons to be shared with nitrogen.
- B Nitrogen provides a pair of electrons to be shared with hydrogen.
- C Hydrogen transfers electrons to nitrogen.
- D Nitrogen transfers electrons to hydrogen.



(b)

What is the **oxidation number** of hydrogen in CaH_2 ?

- A +1
- B +2
- C -1
- D -2

(C)



PREVIEW

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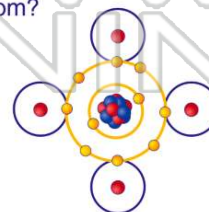
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(b)

What is the **maximum number** of **covalent bonds** that can be formed by one carbon atom?

- A 1
- B 2
- C 3
- D 4



(d)