

**PART 1: MULTIPLE CHOICE QUESTIONS BÀI 15: ALKANE A B A C B B
A B D C C A B B A C D B B A A C B B B MỨC ĐỘ 2: HIỂU B B C B C A
B C B C C C A A B D A C BÀI 16: HYDROCARBON KHÔNG NO MỨC
ĐỘ 1: BIẾT C C C**

Thời gian: **Không giới hạn** | Số câu: **15**

Họ và tên thí sinh: _____
Lớp / Đơn vị: _____

Số báo danh: _____
Ngày thi: _____

1. What is the simplest alkane?

- A.** Ethane **B.** Methane
C. Propane **D.** Butane

2. Which alkane has the molecular formula C_4H_{10} ?

- A.** Methane **B.** Ethane
C. Propane **D.** Butane

3. Which hydrocarbon group contains double bonds?

- A.** Alkanes **B.** Alkenes
C. Alkynes **D.** Aromatic hydrocarbons

4. Which of the following is not an unsaturated hydrocarbon?

- A.** Ethene **B.** Propene
C. Butene **D.** Butane

5. What is the general formula for alkanes?

- A.** C_nH_{2n} **B.** C_nH_{2n+2}
C. C_nH_{2n-2} **D.** C_nH_n

- 6.** Which of the following is a structural isomer of Pentane?
- A.** Hexane
B. 2-Methylbutane
C. Propane
D. Butane
- 7.** Which of the following is an alkane?
- A.** Ethene
B. Acetylene
C. Methane
D. Benzene
- 8.** What is the name of the alkane with three carbon atoms?
- A.** Methane
B. Ethane
C. Propane
D. Butane
- 9.** What is the general formula for alkenes?
- A.** C_nH_{2n}
B. C_nH_{2n+2}
C. C_nH_{2n-2}
D. C_nH_n
- 10.** Which of the following alkanes is a gas at room temperature?
- A.** Ethane
B. Propane
C. Butane
D. Pentane
- 11.** What is the name of the alkane with five carbon atoms?
- A.** Pentane
B. Hexane
C. Heptane
D. Octane
- 12.** What is the general formula for alkynes?
- A.** C_nH_{2n}
B. C_nH_{2n+2}
C. C_nH_{2n-2}
D. C_nH_n

13. Which of the following is not an alkene?

A. Ethene

C. Butene

B. Propene

D. Butane

14. Which of the following hydrocarbons contain a ring structure?

A. Alkane

C. Alkyne

B. Alkene

D. Aromatic hydrocarbon

15. Which of the following is a property of alkanes?

A. They are insoluble in water

C. They are less dense than water

B. They are colorless and odorless

D. All of the above

ĐÁP ÁN

Câu 1	Câu 2	Câu 3	Câu 4	Câu 5	Câu 6	Câu 7	Câu 8	Câu 9	Câu 10
B	D	B	D	B	B	C	C	A	A, B, C
Câu 21		Câu 22		Câu 23		Câu 24		Câu 25	
A		C		D		D		D	

Gợi ý / Giải thích:

Câu 1: The simplest alkane has only one carbon atom

Câu 2: The molecular formula of an alkane is C_nH_{2n+2}

Câu 3: The name of this group comes from 'ene', which refers to the presence of a double bond

Câu 4: Unsaturated hydrocarbons contain double or triple bonds, while saturated hydrocarbons only contain single bonds

Câu 5: Alkanes are saturated hydrocarbons with single bonds only

Câu 6: Structural isomers have the same molecular formula but different structural arrangement

Câu 7: Alkanes are hydrocarbons with single bonds only

Câu 8: The name of alkanes are based on the number of carbon atoms

Câu 9: Alkenes are unsaturated hydrocarbons with one or more double bonds

Câu 10: Alkanes with 1 to 4 carbon atoms are gases at room temperature

Câu 11: The prefix 'pent-' refers to five

Câu 12: Alkynes are unsaturated hydrocarbons with one or more triple bonds

Câu 13: Alkenes are hydrocarbons with one or more double bonds

Câu 14: Aromatic hydrocarbons contain a ring of carbon atoms

Câu 15: Alkanes are hydrocarbons with only single bonds