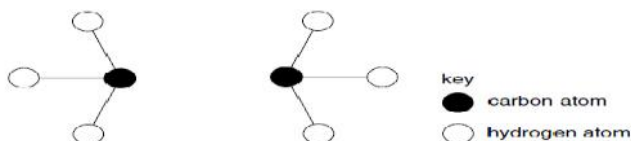


The City School
 North Nazimabad Boys Campus
 Chemistry test (alkanes and alkenes)
 Class:11



Name: _____ Sec: _____ Date: _____ Marks [25]

1. The diagram shows a model of an organic compound



What is the name of this compound?

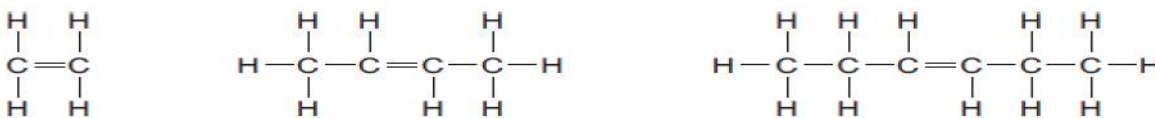
- A ethane
- B ethanoic acid
- C ethanol
- D ethene

2. Bitumen is a substance obtained from the fractional distillation of petroleum.

What are the boiling points and the sizes of the molecules in bitumen?

	boiling points	sizes of molecules
A	high	large
B	high	small
C	low	large
D	low	small

3. The structures of three compounds are shown.



Why do these substances all belong to the same homologous series?

- A They all contain an even number of carbon atoms.
- B They all contain the same functional group.
- C They are all hydrocarbons.
- D They are all saturated.

4. Which column describes ethane and which column describes ethene?

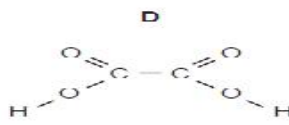
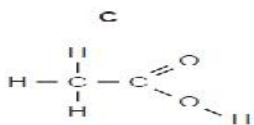
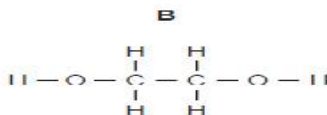
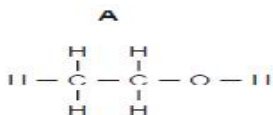
	hydrocarbon			
	1	2	3	4
state at room temperature	gas	gas	liquid	liquid
reaction with oxygen	burns	burns	burns	burns
reaction with aqueous bromine	no reaction	decolourises bromine	no reaction	decolourises bromine

- A 1 (ethane) and 2 (ethene)
- B 1 (ethane) and 3 (ethene)
- C 2 (ethene) and 3 (ethane)
- D 3 (ethane) and 4 (ethene)

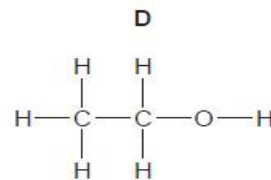
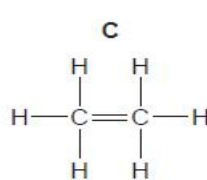
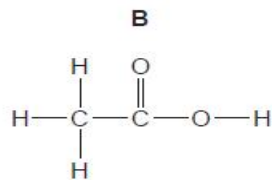
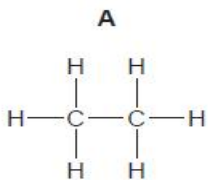
5. Which properties do butane, propene and ethanol all have?

	burn	polymerise
A	✓	✓
B	✓	x
C	x	✓
D	x	x

6. When a suitable catalyst is used, ethene reacts with steam. What is the structure of the compound formed?



7. Which structure is incorrect?

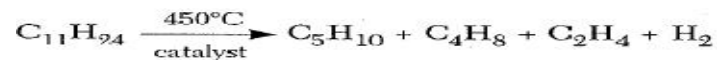


8. Ethane is a member

of the hydrocarbon series with the general formula

- A C_nH_{2n+2}
- B C_nH_{2n}
- C C_nH_{2n-n}
- D C_nH_{2n-6}

9. Given the equation:



Which type of reaction does this equation represent?

- A addition
- B cracking
- C hydrogenation
- D substitution

10. Which is an isomer of butane

