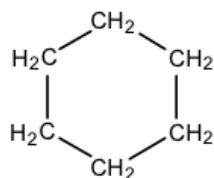
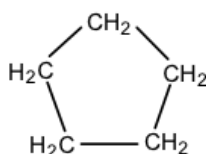


## Organic

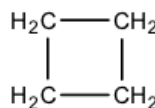
- 14 Cycloalkanes are alkane compounds that are in a ring shape. Some examples of cycloalkanes are given below.



Cyclohexane



Cyclopentane



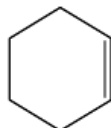
Cyclobutane

Which statement about these compounds is correct?

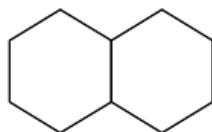
- A They have the general formula  $C_nH_{2n+2}$
- B They react rapidly with bromine water
- C They are saturated compounds
- D They burn in excess oxygen to form  $CO_2$  and  $H_2$
- E They are not members of a homologous series
- F They are giant covalent compounds

**2015**

- 10 Cyclohexene,  $C_6H_{10}$ , can be represented as:



Use this information to calculate the relative molecular mass of the hydrocarbon shown below:



[ $A_r$  values:  $H = 1$ ;  $C = 12$ ]

- A 108
- B 126
- C 134
- D 138
- E 150

**2011**



## Organic

10 Which two of the following are produced by the complete combustion of fuels?

- 1  $\text{CH}_4$
- 2  $\text{CO}$
- 3  $\text{CO}_2$
- 4  $\text{H}_2\text{O}$
- 5  $\text{He}$
- 6  $\text{NH}_3$

- A 1 and 3
- B 2 and 4
- C 2 and 6
- D 3 and 4
- E 3 and 6
- F 4 and 5

2010