

STRUCTURAL ISOMERS – TEST 1

QUESTION 1

Structural isomers of a saturated hydrocarbon

- A have the same structure.
- B have different compositions of elements.
- C have the same molecular formula.
- D must contain the same isotopes of carbon and hydrogen.

QUESTION 2

Which of the following hydrocarbons would not have any structural isomers?

- A C_7H_{16}
- B C_6H_{14}
- C C_5H_{10}
- D C_3H_8

QUESTION 3

A structural isomer of $CH_3CH_2CH_2CH_2OH$ is?

- A $CH_3CH_2CH_2OH$
- B $CH_3CH(OH)CH_3$
- C $CH_3CH_2CH_2CHO$
- D $CH_3CH(OH)CH_2CH_3$

QUESTION 4

A structural isomer of C_2H_5OH is?

- A Ethanal, CH_3CHO
- B Acetic acid, CH_3COOH
- C Dimethyl ether, H_3COCH_3
- D Propanol, C_3H_7OH

QUESTION 5

How many structural isomers does C_5H_{12} have?

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

QUESTION 6

How many alcohols are structural isomers with the formula $C_5H_{11}OH$?

- A 5
- B 6
- C 7
- D 8

QUESTION 7

Draw the structural formulae of the isomers of pentene.

Solution

QUESTION 8

Draw all the structural isomers of C_4H_9F .

Solution

QUESTION 9

Draw all the isomers of C_3H_6O .

Solution

SOLUTIONS

QUESTION 1 Answer is C

QUESTION 2 Answer is D

QUESTION 3 Answer is D

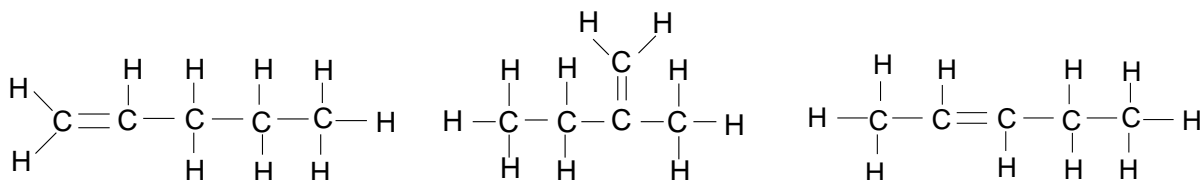
QUESTION 4 Answer is C

QUESTION 5 Answer is C

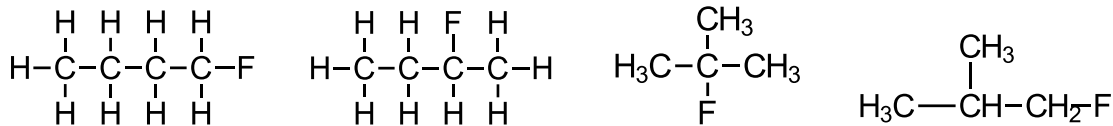
QUESTION 6 Answer is D

QUESTION 7

Pentene is C_5H_{10}



QUESTION 8



QUESTION 9

