Question 2

Incorrect Mark 0.00 out of 10.00

A double bond consists of how many **pairs of electrons** shared between two atoms?

- a. 4 ✗ Yanlış
- b. 1
- c. 0
- d. 3
- e. 2

The correct answer is: 2

Question 3

Correct Mark 10.00 out of 10.00

A molecular formula tells the

- a. number and types of atoms in the molecule ✓ Doğru
- b. total number of bonds in the molecule
- c. arrangement of the atoms in the molecule
- d. total number of electrons in the molecule
- e. total number of valence electrons in the molecule

The correct answer is: number and types of atoms in the molecule

Question 4

Correct Mark 10.00 out of 10.00

A student () proposes **:C:::O:** as a **Lewis Structure for carbon monoxide**.

- a. Carbon has a formal charge of 0 and oxygen has a formal charge of +1.
- b. Carbon has a formal charge of +1 and oxygen has a formal charge of 0.
- c. Carbon has a formal charge of 0 and oxygen has a formal charge of 0.
- d. Carbon has a formal charge of -1 and oxygen has a formal charge of +1. ✓ Doğru
- e. Carbon has a formal charge of +1 and oxygen has a formal charge of -1.

The correct answer is: Carbon has a formal charge of -1 and oxygen has a formal charge of +1.

Question 5

Correct Mark 10.00 out of 10.00

Consider S, As, F, Sn, and Cs. The atom with the **greatest** electronegativity is:

- a. As
- b. Cs
- c. Sn
- d. F ✓ Doğru
- e. S

The correct answer is: F

Question 6

Correct Mark 10.00 out of 10.00

What type of formula omits the carbon-hydrogen bonds?

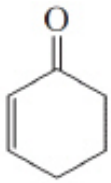
- a. Dash formula
- b. Electron-dot formula
- c. Condensed formula ✓ Doğru
- d. Lewis formula
- e. Ball-and-stick model

The correct answer is: Condensed formula

Question 7

Correct Mark 10.00 out of 10.00

Which is the correct molecular formula of the following molecule?



- a. C_6H_8O ✓ Doğru
- b. C_5H_8O
- c. $C_5H_{10}O$
- d. $C_7H_{10}O$
- e. $C_6H_{10}O$

The correct answer is: C_6H_8O

Question 8 Correct Mark 10.00 out of 10.00

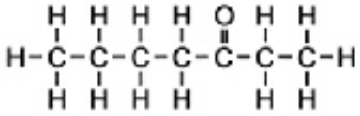
Which molecule has only one unshared pair of valence electrons?

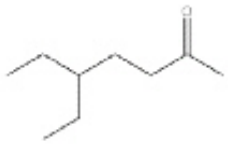
- a. N_2
- b. NH_3 ✓ Doğru
- c. Cl_2
- d. H_2O
- e. H_2O_2

The correct answer is: NH_3

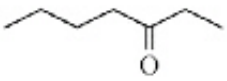
Question 9 Correct Mark 10.00 out of 10.00

Which of the following is the correct skeletal (bond-line) structural formula for the following compound?

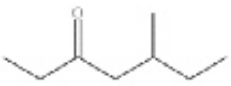


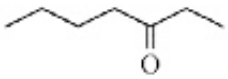
a. 

b. none of the choices

c.  ✓ Doğru

d. 

e. 

The correct answer is: 

Question 10 Correct Mark 10.00 out of 10.00

Which of the following pairs of compounds are isomers?

a. CH_3-$CH(CH_3)$-CH_3 and $CH_3CH_2CHCH_2$

b. $CH_3CH_2CH_2CH_3$ and $CH_3CH(CH_3)CH_3$ ✓ Doğru

c. CH_3OCH_3 and CH_3COCH_3

d. CH_3OH and CH_3CH_2OH

e. $CH_3CH_2CH_2OH$ and $(CH_3)_3COH$

The correct answer is: $CH_3CH_2CH_2CH_3$ and $CH_3CH(CH_3)CH_3$