

**Pool Canvas**

Add, modify, and remove questions. Select a question type from the Add Question drop-down list and click **Go** to add questions. Use Creation Settings to establish which default options, such as feedback and images, are available for question creation.

Add [Creation Settings](#)

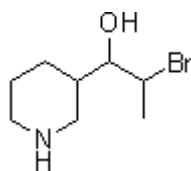
Name Chapter 1: Structure and Bonding
Description Question pool for Chapter 1: Structure and Bonding
Instructions

[Modify](#)[Add Question Here](#)

Question 1 **0 points**

[Modify](#)[Remove](#)

Question
Which is the most electronegative atom in the compound below?



Answer

- Carbon
- Nitrogen
- Oxygen
- Bromine

[Add Question Here](#)

Question 2 **0 points**

[Modify](#)[Remove](#)

Question
Which of the following correctly describes the electrons of a carbon atom in its ground state?

Answer

- 3 s electrons; 3 p electrons
- 2 1s electrons; 4 2p electrons
- 2 1s electrons; 2 2s electrons; 2 2p electrons
- 2 1s electrons; 2 2s electrons; 4 2p electrons
- None of these choices is correct.

[Add Question Here](#)

Question 3 **0 points**

[Modify](#)[Remove](#)

Question
Which of the following statements correctly describes the typical bonding of carbon, nitrogen, and oxygen in organic molecules?

Answer

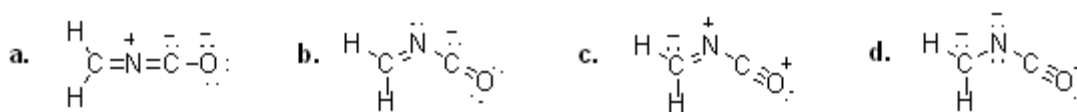
- Carbon participates in 4 covalent bonds, oxygen participates in 2 covalent bonds and nitrogen participates in 5 covalent bonds.
- Carbon participates in 3 covalent bonds, oxygen participates in 2 covalent bonds and nitrogen participates in 5 covalent bonds.
- Carbon participates in 4 covalent bonds, oxygen participates in 3 covalent bonds and nitrogen participates in 3 covalent bonds.
- Carbon participates in 3 covalent bonds, oxygen participates in 3 covalent bonds and nitrogen participates in 5 covalent bonds.
- Carbon participates in 4 covalent bonds, oxygen participates in 2 covalent bonds and nitrogen participates in 3 covalent bonds.

[Add Question Here](#)

Question 4 **0 points**

[Modify](#)[Remove](#)

Question
Which is *not* an acceptable Lewis structure for the anion $(\text{CH}_2\text{NCO})^-$?



Answer

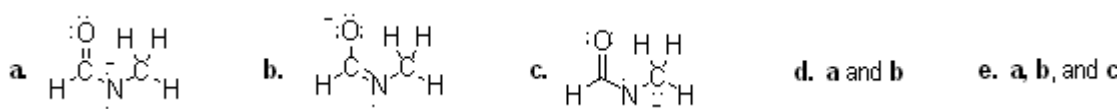
- a
- b
- c
- d

[Add Question Here](#)

Question 5 **0 points**

[Modify](#)[Remove](#)

Question
Which of the following is (are) valid Lewis structure(s) for the anion $(\text{HCONCH}_3)^-$?



Answer

- a
- b
- c
- d
- e

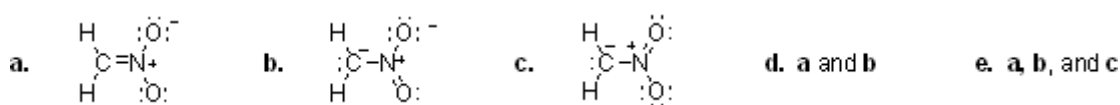
[Add Question Here](#)

Question 6 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Which of the following is (are) valid Lewis structure(s) for the anion $(\text{CH}_2\text{NO}_2)^-$? Assume the atoms are arranged as drawn.

d. a and b e. a, b, and c

Answer

a

b

c

d

✓ e

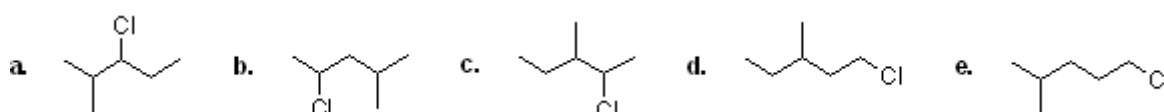
[Add Question Here](#)

Question 7 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Which is the appropriate conversion of $\text{CH}_3\text{CHClCH}_2\text{CH}(\text{CH}_3)_2$ to a skeletal formula?

Answer

a

✓ b

c

d

e

[Add Question Here](#)

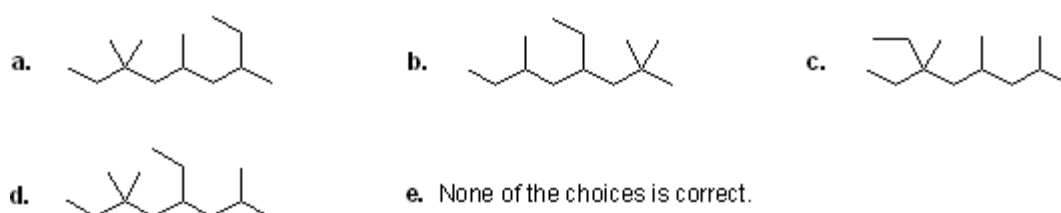
Question 8 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Convert the following compound from a condensed formula to a skeletal formula:

 $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}_2\text{CH}(\text{CH}_3)_2$ 

Answer

a

b

c

✓ d

e

[Add Question Here](#)

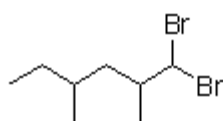
Question 9 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

What is the condensed formula of the compound below?

a. $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}(\text{CH}_3)\text{CHBr}_2$ b. $\text{CH}_3\text{CH}_2\text{CH}_2(\text{CH}_3)\text{CH}_2\text{CH}(\text{CH}_3)\text{CHBr}_2$ c. $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_2\text{CHBr}_2$

Answer

✓ a

b

c

[Add Question Here](#)

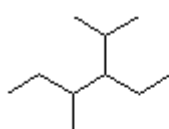
Question 10 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Convert the following skeletal formula to a condensed formula.

a. $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)_2\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}(\text{CH}_3)_2$ b. $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}(\text{CH}_3)_2$ c. $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}(\text{CH}_3)_2$

Answer

- a
 b
 c

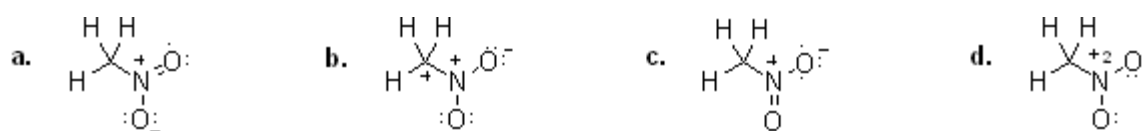
[Add Question Here](#)

Question 11 Multiple Choice

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[Modify](#)[Remove](#)

Question

Which of the following is *not* a valid Lewis structure of CH_3NO_2 ?

Answer

- a
 b
 c
 d

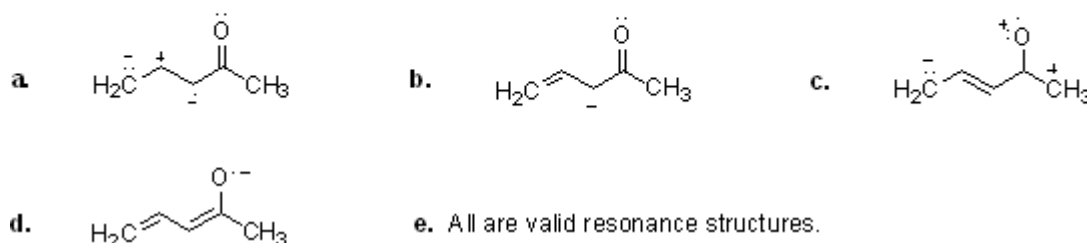
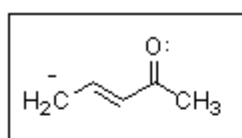
[Add Question Here](#)

Question 12 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Which is *not* a valid resonance structure for the anion below?

Answer

- a
 b
 c
 d
 e

[Add Question Here](#)

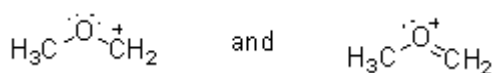
Question 13 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

How are the molecules in the following pair related?



Answer

- They are constitutional isomers.
 They are resonance structures.
 They represent the same structure.

[Add Question Here](#)

Question 14 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

How are the molecules in the following pair related?



Answer

- They are constitutional isomers.
 They are resonance structures.
 Neither of the choices is correct.

[Add Question Here](#)

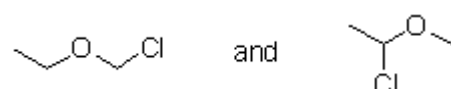
Question 15 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

How are the molecules in the following pair related?



Answer

- They are constitutional isomers.
 They are resonance structures.
 Neither of the choices is correct.

[Add Question Here](#)

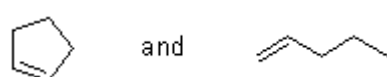
Question 16 Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

How are the molecules in the following pair related?



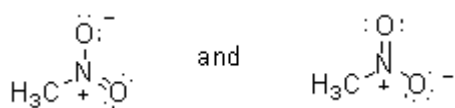
- Answer**
- They are constitutional isomers.
 - They are resonance structures.
 - ✓ They are unrelated molecules.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 17 **Multiple Choice** **0 points**

Question
How are the molecules in the following pair related?



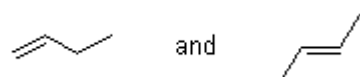
- Answer**
- They are constitutional isomers.
 - ✓ They are resonance structures.
 - Neither of the choices is correct.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 18 **Multiple Choice** **0 points**

Question
How are the molecules in the following pair related?



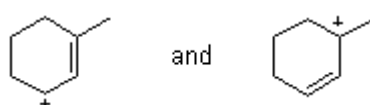
- Answer**
- ✓ They are constitutional isomers.
 - They are resonance structures.
 - Neither of the choices is correct.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 19 **Multiple Choice** **0 points**

Question
How are the molecules in the following pair related?



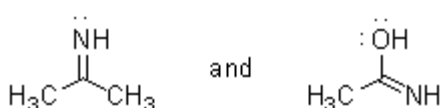
- Answer**
- They are constitutional isomers.
 - ✓ They are resonance structures.
 - Neither of the choices is correct.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 20 **Multiple Choice** **0 points**

Question
How are the molecules in the following pair related?



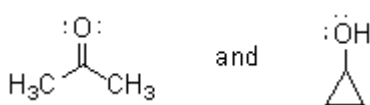
- Answer**
- They are constitutional isomers.
 - They are resonance structures.
 - ✓ They are unrelated molecules.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 21 **Multiple Choice** **0 points**

Question
How are the molecules in the following pair related?



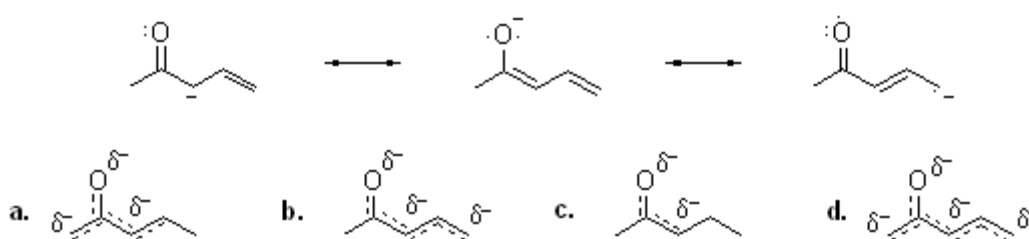
- Answer**
- ✓ They are constitutional isomers.
 - They are resonance structures.
 - Neither of the choices is correct.

◀ [Add Question Here](#)

[Modify](#) [Remove](#)

Question 22 **Multiple Choice** **0 points**

Question
Which is the most accurate representation of the resonance hybrid for the resonance structures shown below?



e. None of the choices is correct.

- Answer**
- a
 - ✓ b
 - c

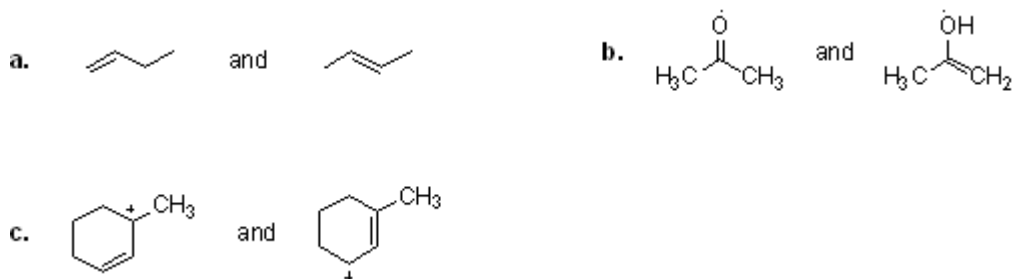
d
e[◀ Add Question Here](#)

Question 23 ▾ Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

Which of the following pairs of compounds are resonance structures?

**Answer**

- a
 b
 c

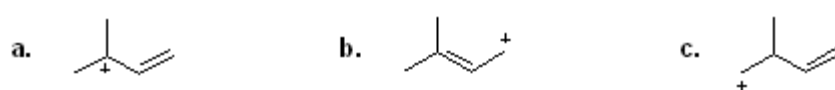
[◀ Add Question Here](#)

Question 24 ▾ Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

Which of the following structures are resonance structures of each other?

**Answer**

- a and b
 b and c
 a and c
 All are resonance structures.
 None of these are resonance structures.

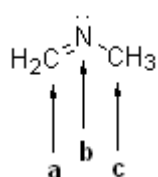
[◀ Add Question Here](#)

Question 25 ▾ Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

What is the hybridization for each of the indicated atoms in the following compound?

**Answer**

- a - sp^2 ; b - sp^2 ; c - sp^2
 a - sp^2 ; b - sp^3 ; c - sp^3
 a - sp ; b - sp^2 ; c - sp^3
 a - sp^2 ; b - sp^2 ; c - sp^3

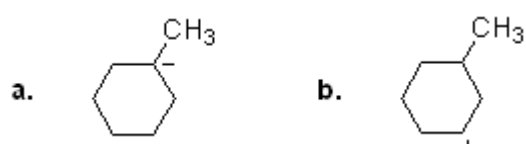
[◀ Add Question Here](#)

Question 26 ▾ Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

Indicate the hybridization of the carbon ion in each compound below.

**Answer**

- a - sp^2 ; b - sp^2
 a - sp^2 ; b - sp^3
 a - sp^3 ; b - sp^3
 a - sp^3 ; b - sp^2

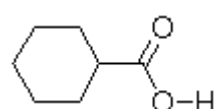
[◀ Add Question Here](#)

Question 27 ▾ Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

Consider the organic molecule drawn below. Describe which orbitals are used to form the C=O bond. Since there are two bonds, you must identify two different sets of orbitals.

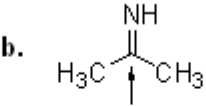
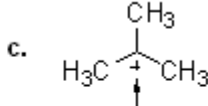
**Answer**

- $C_{sp^2} - O_{sp^2}$ and $C_s - O_p$
 $C_{sp} - O_{sp}$ and $C_p - O_p$
 $C_{sp^2} - O_{sp^2}$ and $C_s - O_s$
 $C_{sp^3} - O_{sp^2}$ and $C_p - O_p$
 $C_{sp^2} - O_{sp^2}$ and $C_{2p} - O_{2p}$

[Add Question Here](#)Question 28 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**Which of the following compounds has a labeled carbon atom that is sp^2 hybridized?

- a. $\text{H}_2\text{C}=\text{C}=\text{CH}_2$ b.  c. 
- d. Compounds b and c e. a, b and c all have sp^3 hybridized carbon.

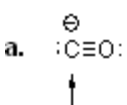
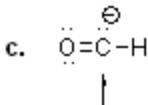
Answer

- a
b
c
 d
e

[Add Question Here](#)Question 29 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**Which of the following compounds contains a labeled atom that is sp hybridized? (All nonbonded electron pairs have been drawn in.)

- a.  b. $\text{HC}\equiv\text{N}:$ c.  d. a and b e. a, b and c

Answer

- a
b
c
 d
e

[Add Question Here](#)Question 30 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**Which of the compounds drawn below contains an sp^2 hybridized carbon atom? Select any and all structures that apply.

- a. CO_2 b. $\text{H}_2\text{C}=\text{O}$ c. CH_3^+ d. CH_3OH

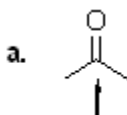
Answer

- a only
b only
d only
a and b
 b and c

[Add Question Here](#)Question 31 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**Which of the labeled carbon atoms is (are) sp^2 hybridized?

- a.  b. CH_3^+ c. $\text{H}_2\text{C}=\text{C}=\text{CH}_2$ d. a and b e. a, b and c

Answer

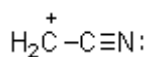
- a
b
c
 d
e

[Add Question Here](#)Question 32 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**

Which statement best describes the orbital hybridization used to form bonds in the cation below?

**Answer**

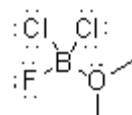
- The σ bond between the two carbon atoms is formed between two sp^2 hybridized atoms.
The σ bond between the C and N is formed between an sp^2 hybridized C and an sp hybridized N.
The σ bond between the two carbons is formed between one sp^3 hybridized C and one sp hybridized C.
 The lone pair of electrons on N is in an sp hybridized orbital.
None of the statements is correct.

[Add Question Here](#)Question 33 **Multiple Choice**

0 points

[Modify](#) [Remove](#)**Question**

Indicate the formal charge on the B, O, and F atoms in the following compound.



- Answer**
- B: +1; O: +1; F: 0
 - B: -1; O: -1; F: 0
 - B: +1; O: -1; F: 0
 - B: -1; O: +1; F: 0
 - None of the choices is correct.

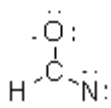
[Add Question Here](#)

Question 34 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

In the following compound, indicate the formal charge on all atoms except hydrogen.



- Answer**
- Carbon +1; Oxygen +1; Nitrogen -2
 - Carbon -1; Oxygen +1; Nitrogen -2
 - Carbon +1; Oxygen -1; Nitrogen -2
 - Carbon +1; Oxygen -1; Nitrogen -1
 - None of the choices is correct.

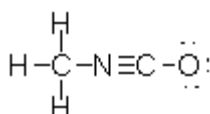
[Add Question Here](#)

Question 35 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

In the following compound, indicate the formal charge on all atoms except hydrogen, from left to right.



- Answer**
- Carbon 0; Nitrogen -1; Carbon +1; Oxygen 0
 - Carbon -0; Nitrogen -1; Carbon 0; Oxygen -1
 - Carbon 0; Nitrogen -1; Carbon 0; Oxygen -1
 - Carbon 0; Nitrogen +1; Carbon 0; Oxygen -1
 - None of the choices is correct.

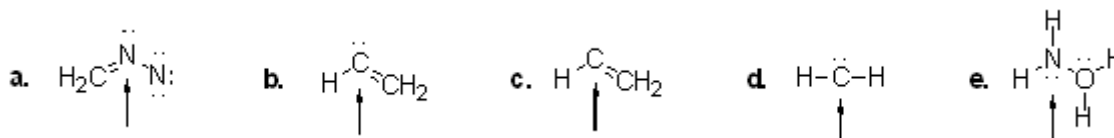
[Add Question Here](#)

Question 36 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following compounds has a labeled atom with a +1 formal charge? (All nonbonded electron pairs have been drawn in.)



- Answer**
- a
 - b
 - c
 - d
 - e

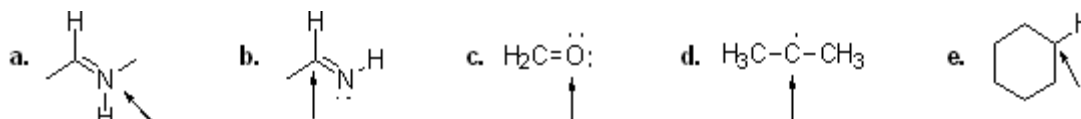
[Add Question Here](#)

Question 37 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following species has a labeled atom with a +1 formal charge? (All nonbonded electron pairs have been drawn in.)



- Answer**
- a
 - b
 - c
 - d
 - e

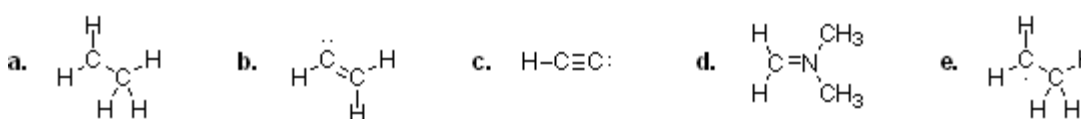
[Add Question Here](#)

Question 38 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following species contains a carbon atom with a +1 formal charge? (All nonbonded electron pairs have been drawn in.)



- Answer**
- a
 - b
 - c
 - d

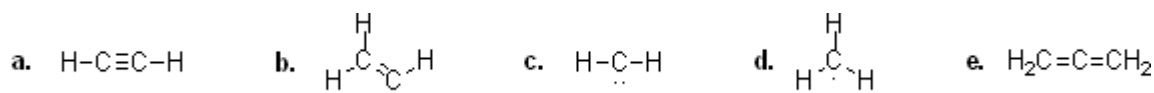
e

[◀ Add Question Here](#)Question 39 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following species contains a carbon atom with a -1 formal charge? (All nonbonded electron pairs have been drawn in.)

**Answer**

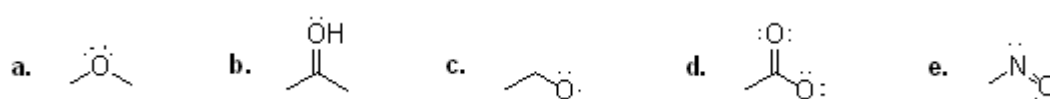
- a
 b
 c
 d
 e

[◀ Add Question Here](#)Question 40 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following species contains an O atom with a +1 formal charge? (All nonbonded electron pairs have been drawn in.)

**Answer**

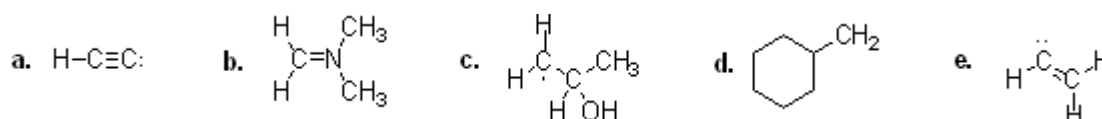
- a
 b
 c
 d
 e

[◀ Add Question Here](#)Question 41 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following species contains a carbon atom with a +1 formal charge? (All nonbonded electrons and electron pairs have been drawn in.)

**Answer**

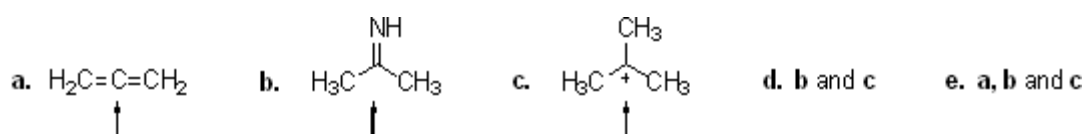
- a
 b
 c
 d
 e

[◀ Add Question Here](#)Question 42 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following species has (have) a trigonal planar structure with 120° bond angles around the labeled carbon atom?

**Answer**

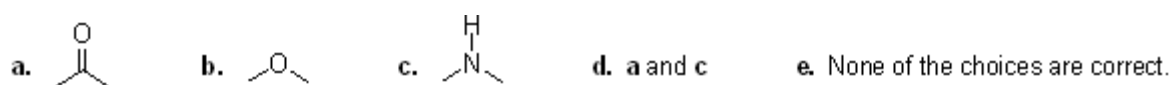
- a
 b
 c
 d
 e

[◀ Add Question Here](#)Question 43 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following molecules has (have) a trigonal planar geometry?

**Answer**

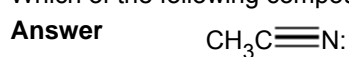
- a
 b
 c
 d
 e

[◀ Add Question Here](#)Question 44 **Multiple Choice**

0 points

[Modify](#)[Remove](#)**Question**

Which of the following compounds possess(es) a nitrogen with tetrahedral geometry?



- NH_2^-
 NH_4^+
 $\text{CH}_3\text{C}\equiv\text{N}$: and NH_2^- are both tetrahedral.
 NH_2^- and NH_4^+ are both tetrahedral.

[Add Question Here](#)

Question 45 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following molecules is (are) polar?

- a. CH_3Cl b. CH_2Cl_2 c. CCl_4

Answer

- a
 b
 c
 a and b
 b and c

[Add Question Here](#)

Question 46 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following statements is (are) correct?

Answer

- Ethane has sp^3 carbon atoms and the geometry around each carbon is trigonal planar.
 Ethane has sp^3 carbon atoms and the geometry around each carbon is tetrahedral.
 Ethane has sp^2 carbon atoms and the geometry around each carbon is tetrahedral.
 Ethane has sp^2 carbon atoms and the geometry around each carbon is trigonal planar.
 None of the statements are correct.

[Add Question Here](#)

Question 47 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Which of the following statements is (are) correct?

Answer

- The carbon-carbon distance in acetylene is longer than in ethylene.
 The carbon-hydrogen bond in acetylene is weaker than the carbon-hydrogen bond in ethane.
 The carbon-carbon distance in acetylene is shorter than in ethane.
 The statements (The carbon-carbon distance in acetylene is longer than in ethylene) and (The carbon hydrogen bond in acetylene is weaker than the carbon hydrogen bond in ethane) are correct.
 The statements (The carbon hydrogen bond in acetylene is weaker than the carbon hydrogen bond in ethane) and (The carbon-carbon distance in acetylene is shorter than in ethane) are correct.

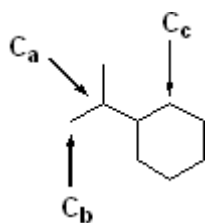
[Add Question Here](#)

Question 48 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

How many hydrogens are directly bonded to each of the indicated carbon atoms?



Answer

- C_a 1; C_b 3; C_c 2
 C_a 2; C_b 3; C_c 2
 C_a 1; C_b 2; C_c 2
 C_a 1; C_b 3; C_c 3
 None of the choices is correct.

[Add Question Here](#)

Question 49 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

Of the molecules listed, which does *not* have a dipole moment?

Answer

- HCl
 NCl_3
 CO
 BF_3
 All molecules have a dipole moment.

[Add Question Here](#)

Question 50 **Multiple Choice** 0 points

[Modify](#) [Remove](#)

Question

For the elements Rb, F, and O, the order of increasing electronegativity is:

Answer

- $\text{Rb} < \text{F} < \text{O}$
 $\text{Rb} < \text{O} < \text{F}$
 $\text{O} < \text{F} < \text{Rb}$
 $\text{F} < \text{Rb} < \text{O}$

The order cannot be determined.

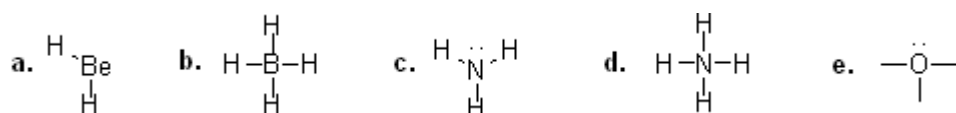
[Add Question Here](#)

Question 51 **Multiple Choice** **0 points**

[Modify](#) [Remove](#)

Question

Which of the following Lewis dot structure(s) below bear(s) a positive charge?



Answer

- a
- b
- c
- c and d
- d and e

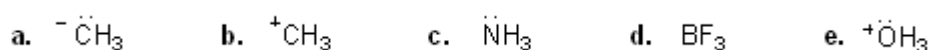
[Add Question Here](#)

Question 52 **Multiple Choice** **0 points**

[Modify](#) [Remove](#)

Question

Which of the following species has (have) a trigonal planar structure?



Answer

- a, b, and c
- b and d
- d
- b, d, and e
- All of the choices are correct.

[Add Question Here](#)

Question 53 **Multiple Choice** **0 points**

[Modify](#) [Remove](#)

Question

What is the molecular shape of methyl anion?



Answer

- Octahedral
- Tetrahedral
- Trigonal planar
- Trigonal pyramidal
- Linear

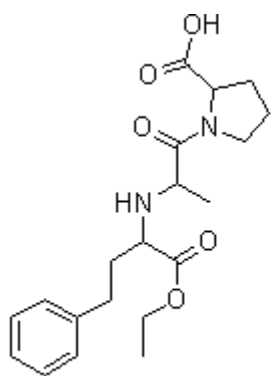
[Add Question Here](#)

Question 54 **Multiple Choice** **0 points**

[Modify](#) [Remove](#)

Question

Enalapril is currently in clinical trials for congestive heart failure, and its structure is given below. What is the correct molecular formula for this interesting antihypertensive agent?



Enalapril

Answer

- a. $\text{C}_{20}\text{H}_{28}\text{N}_2\text{O}_5$
- b. $\text{C}_{18}\text{H}_{26}\text{N}_2\text{O}_5$
- c. $\text{C}_{16}\text{H}_{24}\text{N}_2\text{O}_5$
- d. $\text{C}_{20}\text{H}_{26}\text{N}_2\text{O}_5$
- e. $\text{C}_{18}\text{H}_{25}\text{N}_2\text{O}_5$

- a
- b
- c
- d
- e

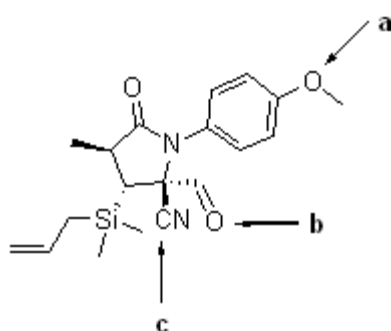
[Add Question Here](#)

Question 55 **Multiple Choice** **0 points**

[Modify](#) [Remove](#)

Question

The following compound is a synthetic intermediate in the production of **lactacystin**. Identify the orbital hybridization and geometry of the atoms next to the three arrows.



Answer

- $a - sp^3; b - sp^2; c - sp^3$
 $a - sp^2; b - sp; c - sp^3$
 $a - sp^2; b - sp^3; c - sp^2$
 $a - sp^3; b - sp^2; c - sp$
 None of the choices is correct.

[Add Question Here](#)

Question 56

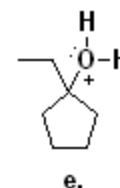
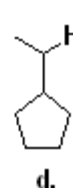
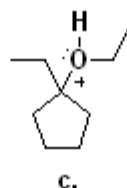
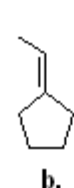
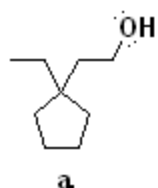
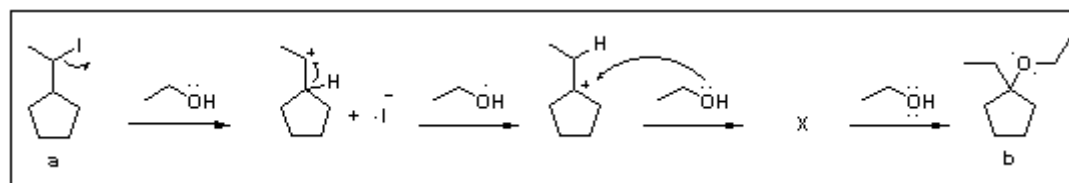
Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

The following scheme represents an S_N1 mechanism for the conversion of alkyl halide "a" to ether "b." Determine the correct structure for intermediate "X" based on the curved arrow formalism shown.



Answer

- a
 b
 c
 d
 e

[Add Question Here](#)

Question 57

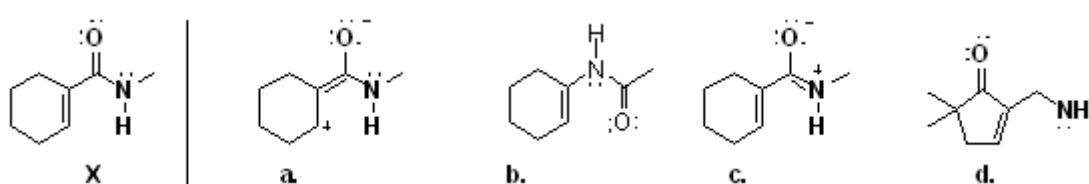
Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

With reference to compound X drawn below, label each compound as an isomer, a resonance structure or neither.



Answer

- a. resonance structure; b. isomer; c. neither; d. isomer
 a. isomer; b. resonance structure; c. isomer; d. neither
 a. isomer; b. neither; c. isomer; d. resonance structure
 a. resonance structure; b. isomer; c. resonance structure; d. isomer
 None of the choices are correct.

[Add Question Here](#)

Question 58

Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Answer the following questions about **lidocaine**, a commonly used dental anesthetic.



Reference: Ref 1-1

What orbitals are used to form the bond indicated by a?

Answer

- Csp^2-Csp^2
 Csp^3-Csp^2
 Csp^2-Csp
 $Csp-Csp^2$
 Csp^3-Csp

[Add Question Here](#)

Question 59

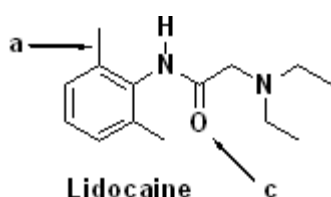
Multiple Choice

0 points

[Modify](#)[Remove](#)

Question

Answer the following questions about **lidocaine**, a commonly used dental anesthetic.



Reference: Ref 1-1

How many carbon atoms have sp^2 hybridization?

Answer

✓ 7
5
6
10
8

[◀ Add Question Here](#)

Question 60 ▾

Multiple Choice

0 points

[Modify](#)[Remove](#)**Question**

Answer the following questions about **lidocaine**, a commonly used dental anesthetic.

**Lidocaine**

Reference: Ref 1-1

Predict the geometry around the oxygen atom indicated by arrow **c**.

Answer

- Linear
- Tetrahedral
- Trigonal bipyramidal
- ✓ Trigonal planar
- Square planar

[◀ Add Question Here](#)

OK