# Question 2

Correct

Mark 1.00 out of 1.00

What common group is attached to both the ether and  $3_{\circ}$  amine in the following molecule?

$$\bigvee ^{\mathsf{OCH}_2\mathsf{C}_6\mathsf{H}_5}$$
 
$$\mathsf{NBn}$$

Select one:

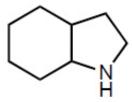
- a. ethyl
- b. azide
- c. phenyl
- d. heptyl
- e. benzyl

**√** Doğru

The correct answer is: benzyl

Doğru

What functional group is present in the following compound?



### Select one:

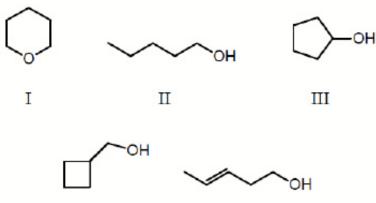
- a. 1∘ alkyl bromide
- b. 2∘ amine
- c. nitrile
- d. 3° amine
- e. 1° amine

The correct answer is: 2° amine

Which compound would have the lowest boiling point?

V

Doğru



Select one:

a. II

IV

- ) b. V
- c. IV
- d. I
- e. III

The correct answer is: I

Which compound would you expect to have the highest boiling point?

### Select one:

- a. ethene
- b. bromoethane

**√** Doğru

- c. ethane
- d. methane
- e. ethyne

The correct answer is: bromoethane

Question 6

Correct

Mark 1.00 out of 1.00

Which of the following organic compounds is the strongest acid?

#### Select one:

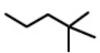
- a.  $C_6H_{12}$  pK<sub>a</sub> = 52
- b. CH<sub>3</sub>CH<sub>2</sub>OH pK<sub>a</sub> = 18
- c.  $CF_3CO_2H pK_a = 0$

**√** Doğru

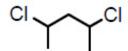
- d. CH<sub>3</sub>CO<sub>2</sub>H pK<sub>a</sub> = 5
- e. CH<sub>3</sub>CH<sub>3</sub> pK<sub>a</sub> = 50

The correct answer is:  $CF_3CO_2H pK_a = 0$ 

A tertiary carbon atom is present in which of these compounds?



Ι



II



III

Doğru

$$\stackrel{\mathsf{HO}}{\longleftarrow}$$
  $\stackrel{\mathsf{IV}}{\longleftarrow}$   $\stackrel{\mathsf{V}}{\longleftarrow}$ 

Select one:

- a. III and V
- b. II and IV
- c. IV
- ( d. I
- e. I and II

The correct answer is: III and V

For a molecule to possess a dipole moment, which following condition is necessary but not sufficient?  Select one:  a. three or more atoms in the molecule  b. presence of one or more polar bonds  c. absence of a carbon-carbon double or triple bond  d. presence of oxygen or fluorine  e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9	Question 8 Correct Mark 1.00 out of 1.00
a. three or more atoms in the molecule b. presence of one or more polar bonds  c. absence of a carbon-carbon double or triple bond d. presence of oxygen or fluorine e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9	
b. presence of one or more polar bonds  c. absence of a carbon-carbon double or triple bond d. presence of oxygen or fluorine e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9 Correct Mark 1.00 out of 1.00  Which of these is not a true statement?  Select one: a. All Lewis acids are electron deficient. b. All Bronsted-Lowry acids contain hydrogen. c. All Lewis bases are also Bronsted-Lowry bases. d. All Lewis acids contain hydrogen.  e. According to the Bronsted-Lowry theory, water is both an acid and a base.	Select one:
C. absence of a carbon-carbon double or triple bond d. presence of oxygen or fluorine e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9	a. three or more atoms in the molecule
d. presence of oxygen or fluorine e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9 Correct Mark 1.00 out of 1.00  Which of these is not a true statement?  Select one: a. All Lewis acids are electron deficient. b. All Bronsted-Lowry acids contain hydrogen. c. All Lewis bases are also Bronsted-Lowry bases. d. All Lewis acids contain hydrogen.  e. According to the Bronsted-Lowry theory, water is both an acid and a base.	● b. presence of one or more polar bonds ✓ Doğru
e. a non-linear structure  The correct answer is: presence of one or more polar bonds  Question 9	c. absence of a carbon-carbon double or triple bond
The correct answer is: presence of one or more polar bonds  Question 9	d. presence of oxygen or fluorine
Question 9 Correct Mark 1.00 out of 1.00   Which of these is not a true statement? Select one: <ul> <li>a. All Lewis acids are electron deficient.</li> <li>b. All Bronsted-Lowry acids contain hydrogen.</li> <li>c. All Lewis bases are also Bronsted-Lowry bases.</li> <li>d. All Lewis acids contain hydrogen.</li> <li>e. According to the Bronsted-Lowry theory, water is both an acid and a base.</li> </ul>	e. a non-linear structure
Which of these is not a true statement?  Select one:  a. All Lewis acids are electron deficient.  b. All Bronsted-Lowry acids contain hydrogen.  c. All Lewis bases are also Bronsted-Lowry bases.  d. All Lewis acids contain hydrogen.  ✓ Doğru  e. According to the Bronsted-Lowry theory, water is both an acid and a base.	The correct answer is: presence of one or more polar bonds
Which of these is not a true statement?  Select one:  a. All Lewis acids are electron deficient.  b. All Bronsted-Lowry acids contain hydrogen.  c. All Lewis bases are also Bronsted-Lowry bases.  d. All Lewis acids contain hydrogen.  ✓ Doğru  e. According to the Bronsted-Lowry theory, water is both an acid and a base.	
Select one:  a. All Lewis acids are electron deficient.  b. All Bronsted-Lowry acids contain hydrogen.  c. All Lewis bases are also Bronsted-Lowry bases.  d. All Lewis acids contain hydrogen.  ✓ Doğru  e. According to the Bronsted-Lowry theory, water is both an acid and a base.	Question 9 Correct Mark 1.00 out of 1.00
<ul> <li>a. All Lewis acids are electron deficient.</li> <li>b. All Bronsted-Lowry acids contain hydrogen.</li> <li>c. All Lewis bases are also Bronsted-Lowry bases.</li> <li>d. All Lewis acids contain hydrogen.</li> <li>✓ Doğru</li> <li>e. According to the Bronsted-Lowry theory, water is both an acid and a base.</li> </ul>	Which of these is not a true statement?
<ul> <li>b. All Bronsted-Lowry acids contain hydrogen.</li> <li>c. All Lewis bases are also Bronsted-Lowry bases.</li> <li>d. All Lewis acids contain hydrogen.</li> <li>✓ Doğru</li> <li>e. According to the Bronsted-Lowry theory, water is both an acid and a base.</li> </ul>	Select one:
<ul> <li>c. All Lewis bases are also Bronsted-Lowry bases.</li> <li>d. All Lewis acids contain hydrogen.</li> <li>✓ Doğru</li> <li>e. According to the Bronsted-Lowry theory, water is both an acid and a base.</li> </ul>	a. All Lewis acids are electron deficient.
<ul> <li>d. All Lewis acids contain hydrogen.</li> <li>e. According to the Bronsted-Lowry theory, water is both an acid and a base.</li> </ul>	b. All Bronsted-Lowry acids contain hydrogen.
e. According to the Bronsted-Lowry theory, water is both an acid and a base.	c. All Lewis bases are also Bronsted-Lowry bases.
base.	● d. All Lewis acids contain hydrogen. ✓ Doğru
The correct answer is: All Lewis acids contain hydrogen.	
	The correct answer is: All Lewis acids contain hydrogen.

Doğru

# A conjugate base of sulfuric acid is:

Select one:

- $\bigcirc$  a.  $H_2SO_3$
- b. H<sub>3</sub>SO<sub>4</sub><sup>+</sup>
- c. SO<sub>3</sub>
- $\bullet$  d.  $HSO_4^-$
- e. HSO<sub>3</sub>

The correct answer is:  $\overline{HSO_4}^-$