Consider the following:				
CH ₃ CH ₂ CH ₂ CH=CHCH ₂ CH ₂ CH ₃	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH=CH ₂			
I	II			
CH ₃ CH ₂ CH=CHCH ₂ CH ₂ CH ₂ CH ₃	Which CH ₂ =CHCH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃			
III	IV			
structures can exist as cis-trans isomers?				
Select one:				
a. I and IV				
b. I and III	√ Doğru			
c. I and II				
d. I alone				
e. II and III				
The correct answer is: I and III				
Question 2 Correct Mark 1.00 out of 1.00				
For a molecule to possess a dipole moment, sufficient?	which following condition is necessary but not			
Select one:				
a. presence of one or more polar bo	onds			
	50614			
b. presence of oxygen or fluorine				
c. a non-linear structure				
d. three or more atoms in the molec				
e. absence of a carbon-carbon doub	ole or triple bond			
The correct answer is: presence of one or more polar bonds				

Question 1

Correct

Mark 1.00 out of 1.00

In the molecular orbital model of benzene, how many pi-electrons are delocalized about the ring?

Select one:

- a. 4
- b. 5
- c. 2
- d. 3
- e. 6

The correct answer is: 6

Question 4

Correct

Mark 1.00 out of 1.00

Which compound is not a constitutional isomer of the others?











Ι

II

III

IV

V

Select one:

- a. All of these choices are isomers of each other.
- b. IV and V
- c. I and II
- d. III

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e. II

The correct answer is: III

Doğru

In which of these cases does the central atom have a zero formal charge?

Select one:

- a. HFH
- b. CH₃ H₃C—C—CH₃
- O d.

 H₃C−N−CH₃
- e.
 H₃C-O-CH₃

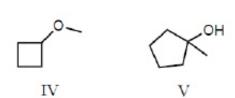
The correct answer is:

Ш

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Which compound is a tertiary alcohol?

I



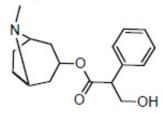
II

Select one:

- a. III
- b. V
- C. I
- d. II
- e. IV

The correct answer is: V

Drawn below is *Atropine*, found in *Atropa belladonna*, sometimes used in dilating pupils during an eye-exam. Which of the following functional groups is NOT in atropine?



Atropine

Select one:

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1	a .	alli	111	┍
	٠.	с	•••	•

b. alcohol

● c. ketone ✓ Doğru

d. ester

e. benzene ring

The correct answer is: ketone

X Yanlış

Doğru

Which is the strongest acid?

Select one:

- a. CH₃CH₂CH₂CHClCH₂CO₂H
- b. CH₃CH₂CH₂CHFCH₂CO₂H
- c. CH₃CH₂CH₂CHICH₂CO₂H
- d. CH3CHBrCH2CH2CH2CO2H
- e. CH3CH2CH2CH2CHFCO2H

The correct answer is: CH3CH2CH2CH2CHFCO2H

Question 9

Correct

Mark 1.00 out of 1.00

Which of the acids below would have the strongest conjugate base?

Select one:

- a. $CH_3CO_2H pK_a = 4.75$
- b. CICH2CO2H pKa = 2.81
- c. Cl_2CHCO_2H pKa = 1.29
- o d. $CH_3CH_2OH pK_a = 18$
- e. Cl₃CCO₂H pK_a = 0.66

The correct answer is: $CH_3CH_2OH pK_a = 18$

Question 10	Not answered	Marked out of 1.00

Which of the following reactions proceeds with inversion of configuration at the carbon

bearing the leaving group?

Select one:

. E2

b. S_N1

c. All of these answer choices are correct.

d. E1

e. S_N2

The correct answer is: SN2