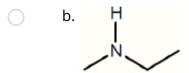
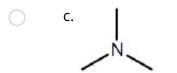
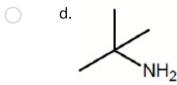
Started on	Friday, 8 April 2022, 1:15 PM
State	Finished
Completed on	Friday, 8 April 2022, 1:41 PM
Time taken	25 mins 27 secs
Grade	40.00 out of 100.00
Question 1	Correct Mark 10.00 out of 10.00
What is the conjug	rate base of ethanol (CH3CH2OH)?
a. CH3CH2C	Doğru ✓ Doğru
b. CH ₃ OCH	3
c. CH ₃ CH ₃	
d. CH ₃ CH ₂	
e. CH3CH2C)H ₂ ⁺
The correct answer is:	· CH ₃ CH ₂ O

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













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The correct answer is:

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

- a. CICH₂CO₂H pK_a = 2.81
- b. CH₃CO₂H pK_a = 4.75

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- c. CH₃CH₂OH pK_a = 18
- d. $Cl_3CCO_2H pK_a = 0.66$
- e. Cl₂CHCO₂H pK_a = 1.29

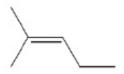
The correct answer is: $CH_3CH_2OH pK_a = 18$

Question 4

Incorrect

Mark 0.00 out of 10.00

Which is the correct molecular formula of the following molecule?



a. C₆H₁₄



- b. C₅H₁₀
- c. C₇H₁₄
- d. C₇H₁₆
- e. C₆H₁₂

The correct answer is: C_6H_{12}

Question 5

Correct

Mark 10.00 out of 10.00

What functional group(s) is/are present in the following compound?



- a. ether and 2° amine
- b. ester and 3° amine
- c. 3° amine
- d. 3° amine and ether

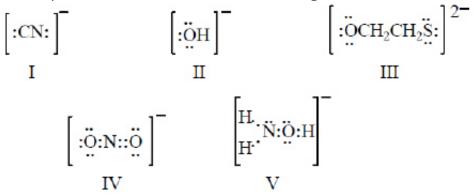


e. None of these choices.

The correct answer is: 3° amine and ether

Ambident nucleophiles are ones which can react with a substrate at either of two nucleophilic sites. Which of the following is not an ambident nucleophile?

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

The correct answer is: II

Which molecule would you expect to have no dipole moment (i.e., μ = 0 D)?

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- \bigcirc
- a. F F
- 0. F H
- c.:NF₃
- d. CHF₃
- e. CH₃F

The correct answer is:



Question 8

Correct

Mark 10.00 out of 10.00

What is the hybridization state of the boron atom in BF₃?

- a. *sp*2
- b. sp
- c. *s* d. *p*
- e. *sp*₃

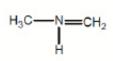
The correct answer is: *sp*₂

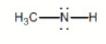
Question 9

Incorrect

Mark 0.00 out of 10.00

In which structure(s) below does nitrogen have a formal charge of +1?







$$H_3C$$
 $- NH_2$

- Ι
- II
- Ш
- IV
- V

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

The correct answer is: I

Question 10

Incorrect

Mark 0.00 out of 10.00

Which compound is not a constitutional isomer of the others?











Ι

II

III

IV

V

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

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The correct answer is: III