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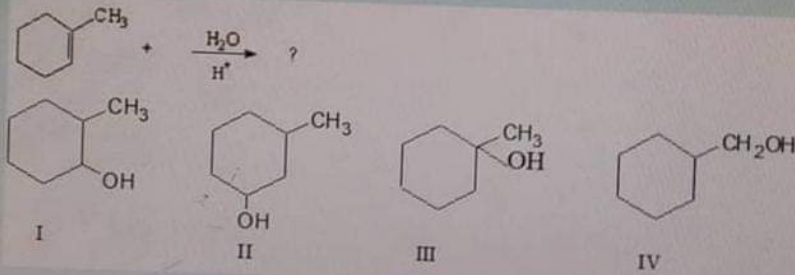


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Select one:

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

What is the major product of the following reaction?



Select one:

- a. III
- b. IV
- c. I
- d. II



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5
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of 1.00
stion

What is the IUPAC name for the following compound?

CH₃C(=O)CH(CH₃)CH₂CH(CH₃)Cl

Select one:

- a. 5-Chloro-3-methylhexanone
- b. 1-Chloro-1,3-dimethyl-4-pentanone
- c. 5-Chloro-3-methyl-2-hexanone
- d. 5-Chloro-3,5-dimethyl-2-pentanone

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How many organic products are obtained by monochlorination of *n*-pentane?

Select one:

- a. 3
- b. 2
- c. 4
- d. 1

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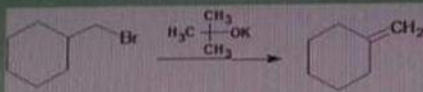
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Question 7

Not answered
0 out of 1.00
1 question

By which mechanism does the following reaction proceed?



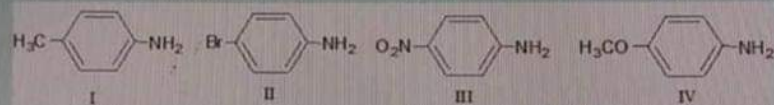
Select one:

- a. S_N2
- b. E1
- c. E2
- d. S_N1

Question 8

Not answered
0 out of 1.00
1 question

Which of the following is the weakest base?



Select one:

- a. III
- b. IV
- c. II
- d. I



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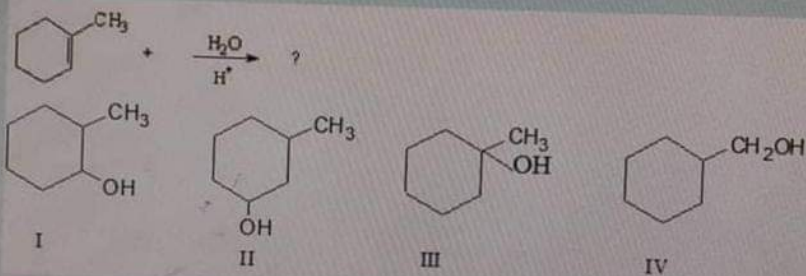
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Select one:

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

What is the major product of the following reaction?



Select one:

- a. III
 b. IV
 c. I
 d. II

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 a. S_N2



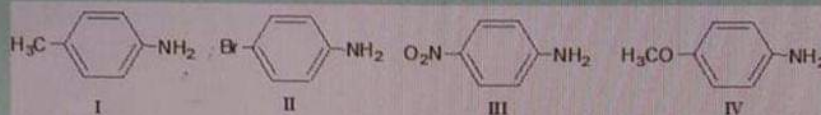
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- a. S_N2
- b. E1
- c. E2
- d. S_N1

Which of the following is the weakest base?



Select one:

- a. III
- b. IV
- c. II
- d. I

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students

1

answered

out of 1.00

question

Which of the following is capable of exhibiting *cis-trans* isomerism.

Select one:

- a. 2-butene
- b. cyclohexene
- c. methylcyclohexane.
- d. 1-butene
- e. 1-pentene

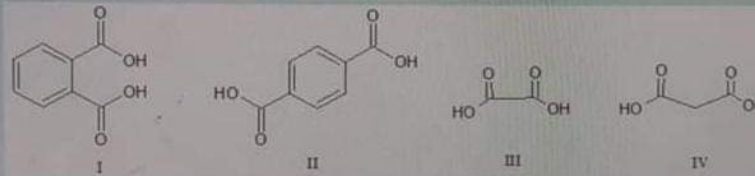
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answered

out of 1.00

question

Which of the following is oxalic acid?



Select one:

- a. II
- b. IV
- c. I
- d. III

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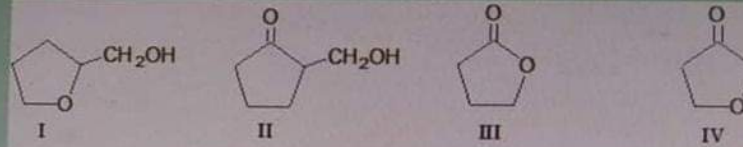
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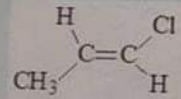
Which of the following represents lactone



Select one:

- a. II
 b. III
 c. IV
 d. I

Which of the following best describes the geometry about the carbon-carbon double bond



Select one:

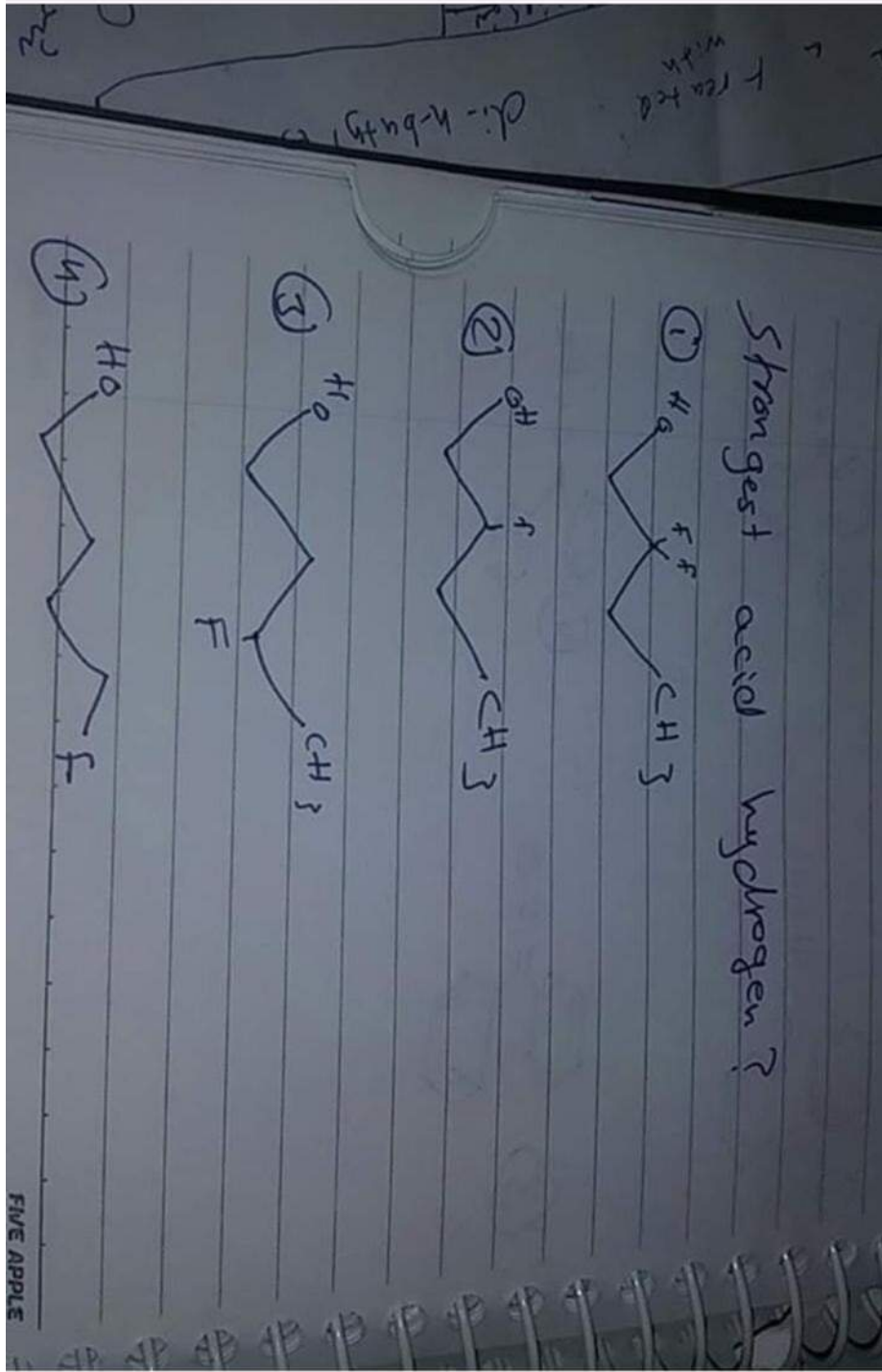
- a. Cis or Trans
 b. Trans
 c. Cis
 d. neither Cis nor Trans

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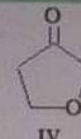
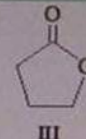
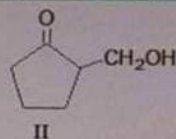
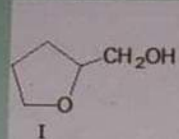
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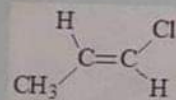
Which of the following represents lactone



Select one:

- a. II
- b. III
- c. IV
- d. I

Which of the following best describes the geometry about the carbon-carbon double bond



Select one:

- a. Cis or Trans
- b. Trans
- c. Cis
- d. neither Cis nor Trans



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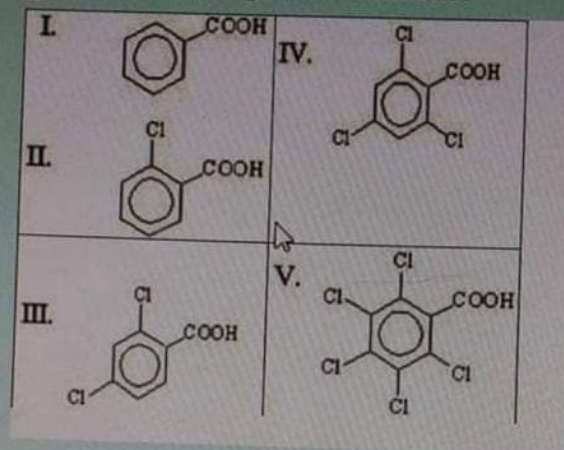
Question 25

Not yet answered

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Which of the following is the weakest acid?



Select one:

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

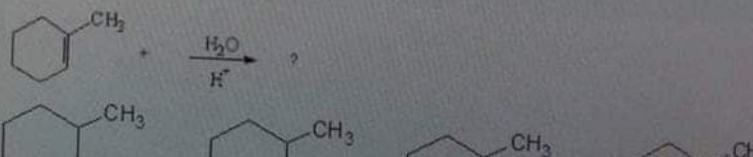
Question 26

Not answered

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What is the major product of the following reaction?



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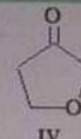
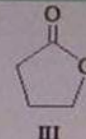
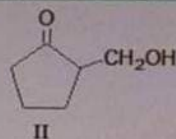
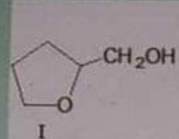
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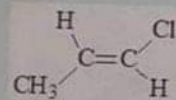
Which of the following represents lactone



Select one:

- a. II
- b. III
- c. IV
- d. I

Which of the following best describes the geometry about the carbon-carbon double bond



Select one:

- a. Cis or Trans
- b. Trans
- c. Cis
- d. neither Cis nor Trans



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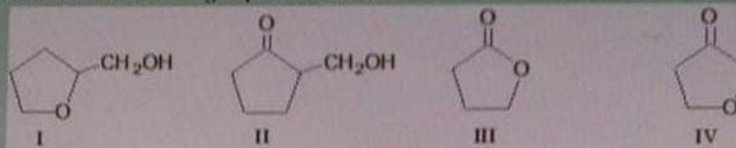


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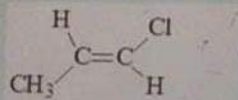
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Select one:

- a. II
 b. III
 c. IV
 d. I

Which of the following best describes the geometry about the carbon-carbon double



Select one:

- a. Cis or Trans
 b. Trans
 c. Cis
 d. neither Cis nor Trans



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Hamzeh's Post

* Sodium nitrate with
HCl at low T?

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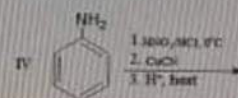
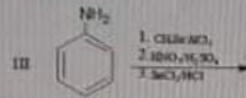
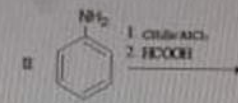
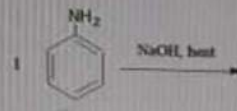
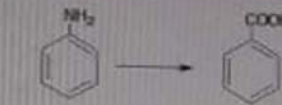


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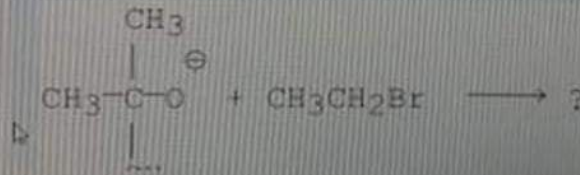
The best method to prepare benzoic acid from aniline



Select one:

- a. III
 b. IV
 c. I
 d. II

What is the product of the following reaction?



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8.4 ■ The Grignard Reagent; an Organometallic Compound

EXAMPLE 8.2

Is it possible to prepare a Grignard reagent from $\text{HOCH}_2\text{CH}_2\text{CH}_2\text{Br}$ and magnesium?

Solution No! Any Grignard reagent that forms is immediately destroyed by protons from the OH group. Grignard and hydroxyl groups in the same molecule are incompatible.

PROBLEM 8.5 Is it possible or impossible to prepare a Grignard reagent from $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_2\text{Br}$? Explain.

yes

The reaction of a Grignard reagent with water can be put to useful purpose. For

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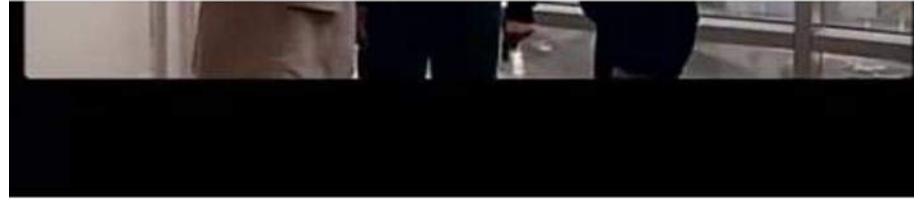
Hamzeh Sar and 2 others

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😄 Feras A. Ahmad and 4 others

8 Comments

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**Hamzeh Sar**

December 30, 2018 · 🌐

اجا سؤالها هي صيغة ال Lactones

واجى عليه اربع اسئلة بقصده فيها

2

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**Hamzeh Sar**

December 30, 2018 · 🌐

اجا اسئلة كثيره كثيره على استخدام العامل المهدرج

LiALH4

واجا في اسئلة كثير ولشو يعمل وكل اشى بخصه

2

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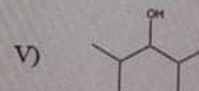
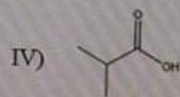
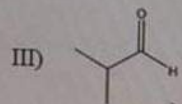
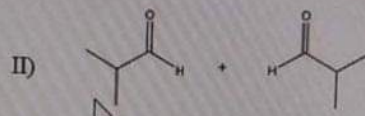
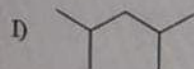
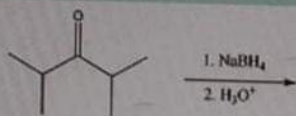


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- c. V
- d. II
- e. III

What is the major product of the following reaction?



Select one:

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

1 Comment

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عبدالله's Post

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Question 4
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What is the product of the following reaction?

$$\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{C}-\text{O}^- \\ | \\ \text{CH}_3 \end{array} + \text{CH}_3\text{CH}_2\text{Br} \longrightarrow ?$$

Select one:

- a. Diethyl ether
- b. n-Butanol
- c. t-butylethyl ether
- d. dibutyl ether

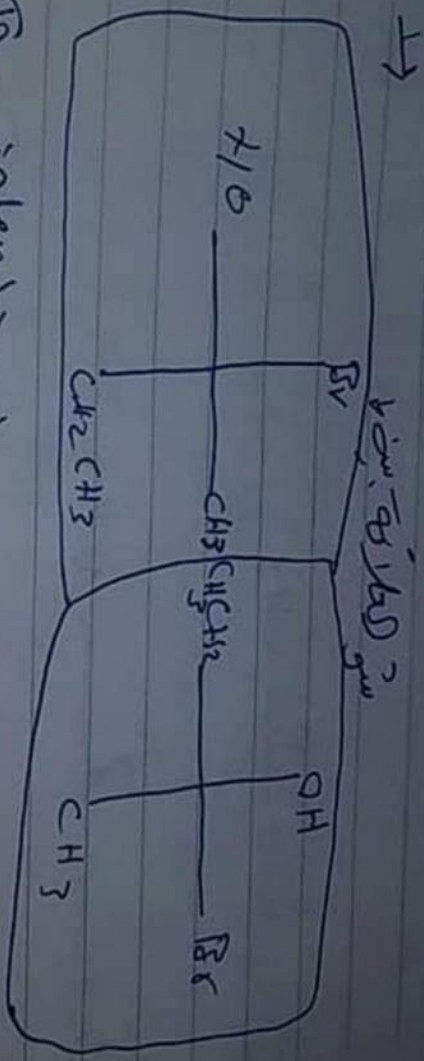
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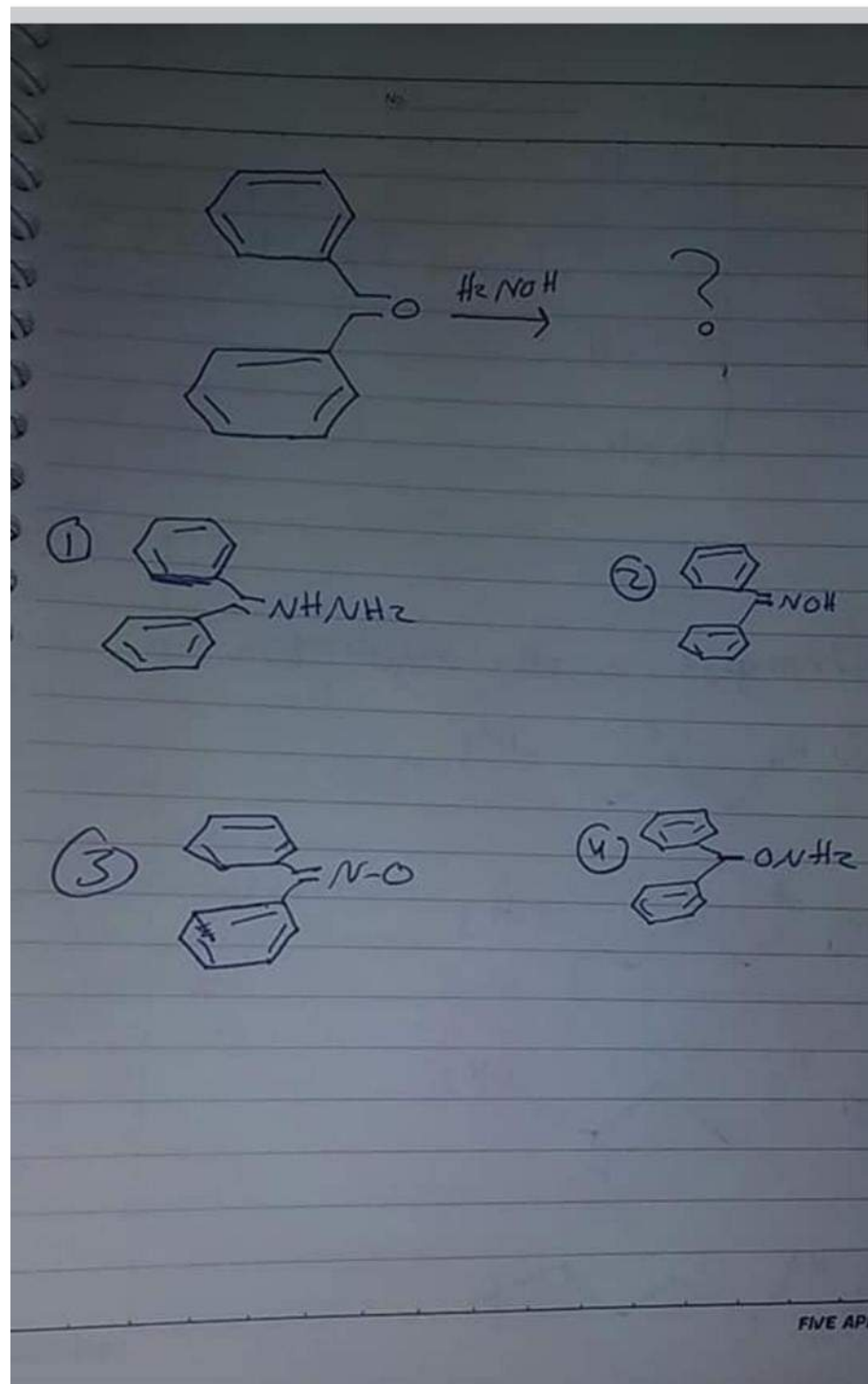
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- 1) - identical
- 2) - Diastereomers.
- 3) - enantiomers.
- 4) both of them have R-configuration
- 5) // // // // S - //

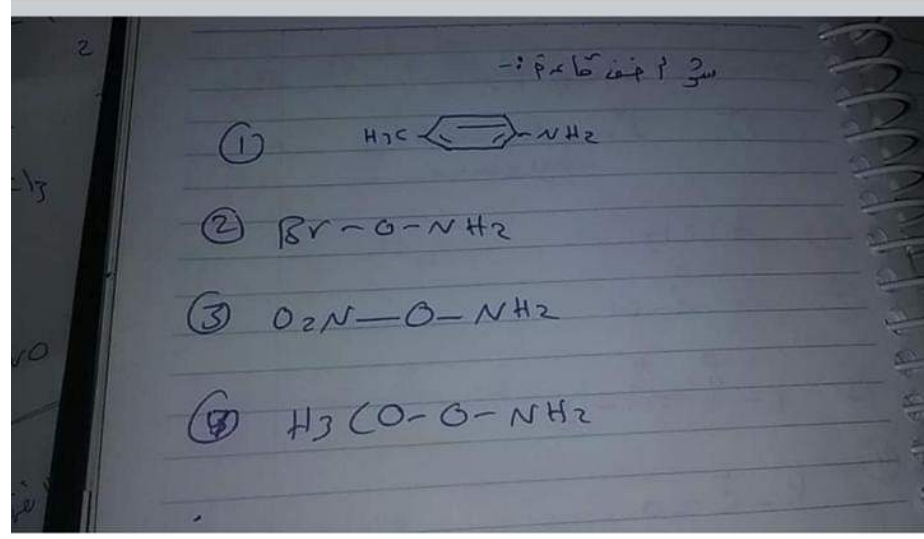


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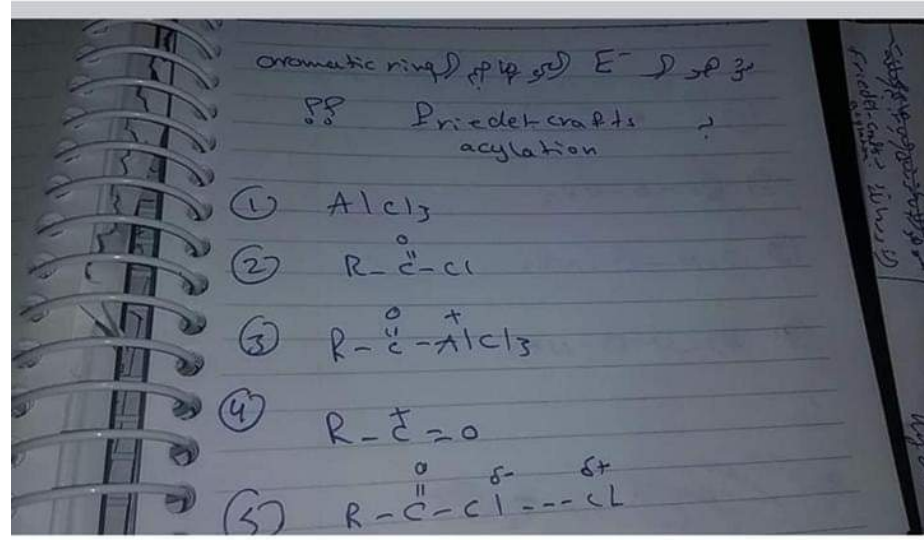


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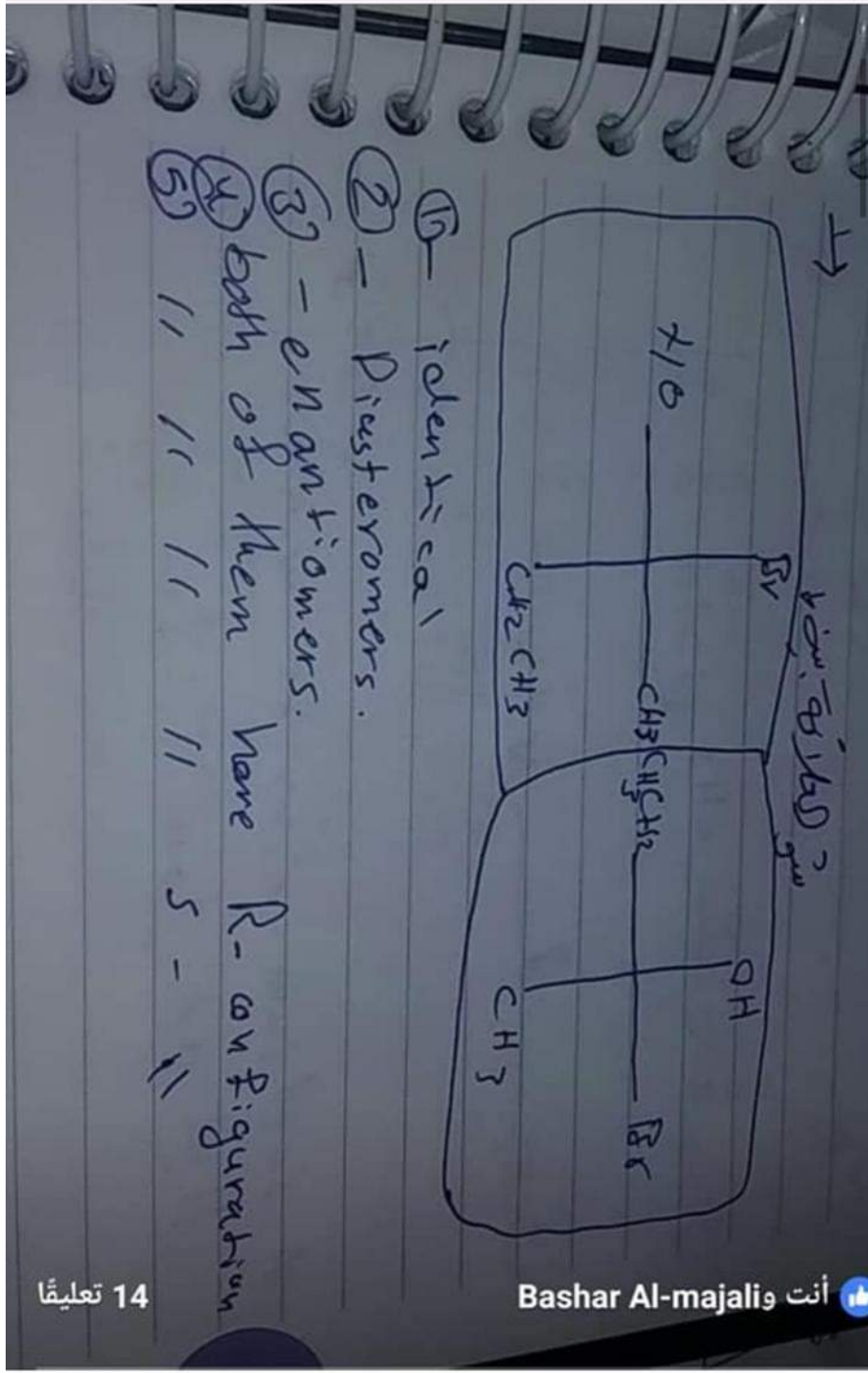


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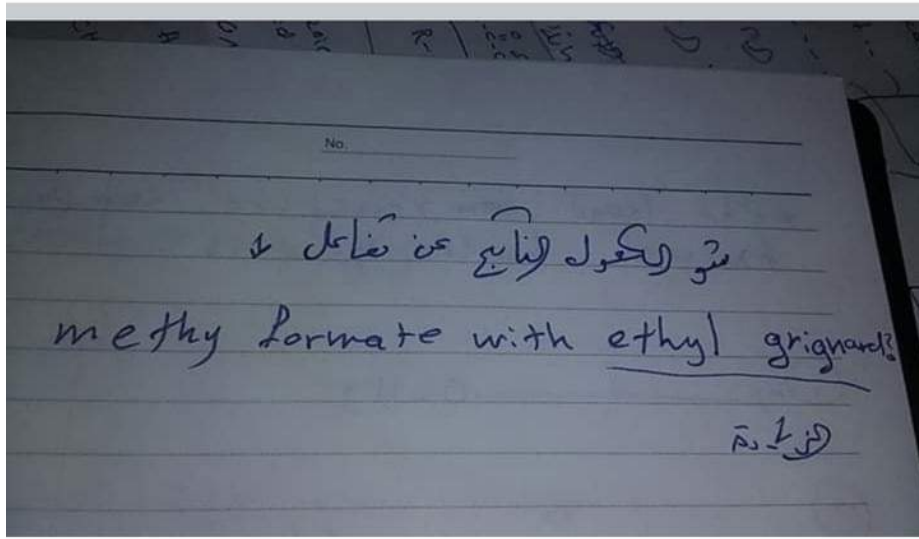
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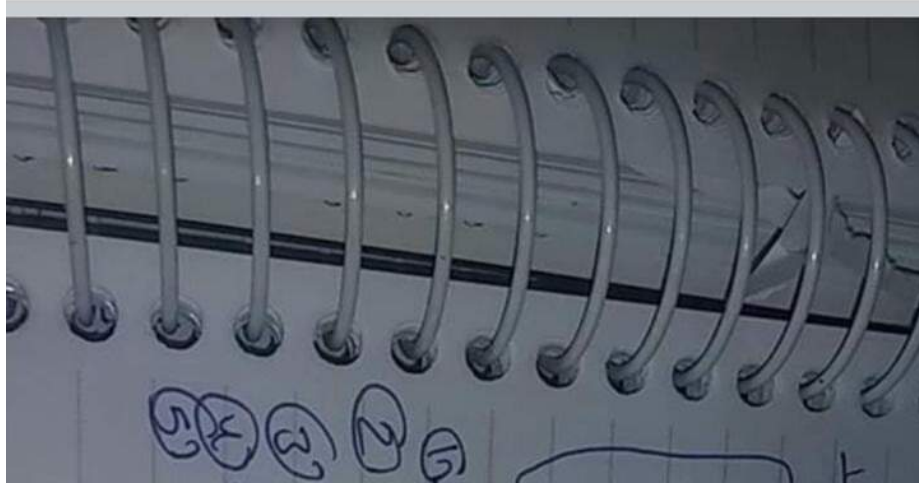
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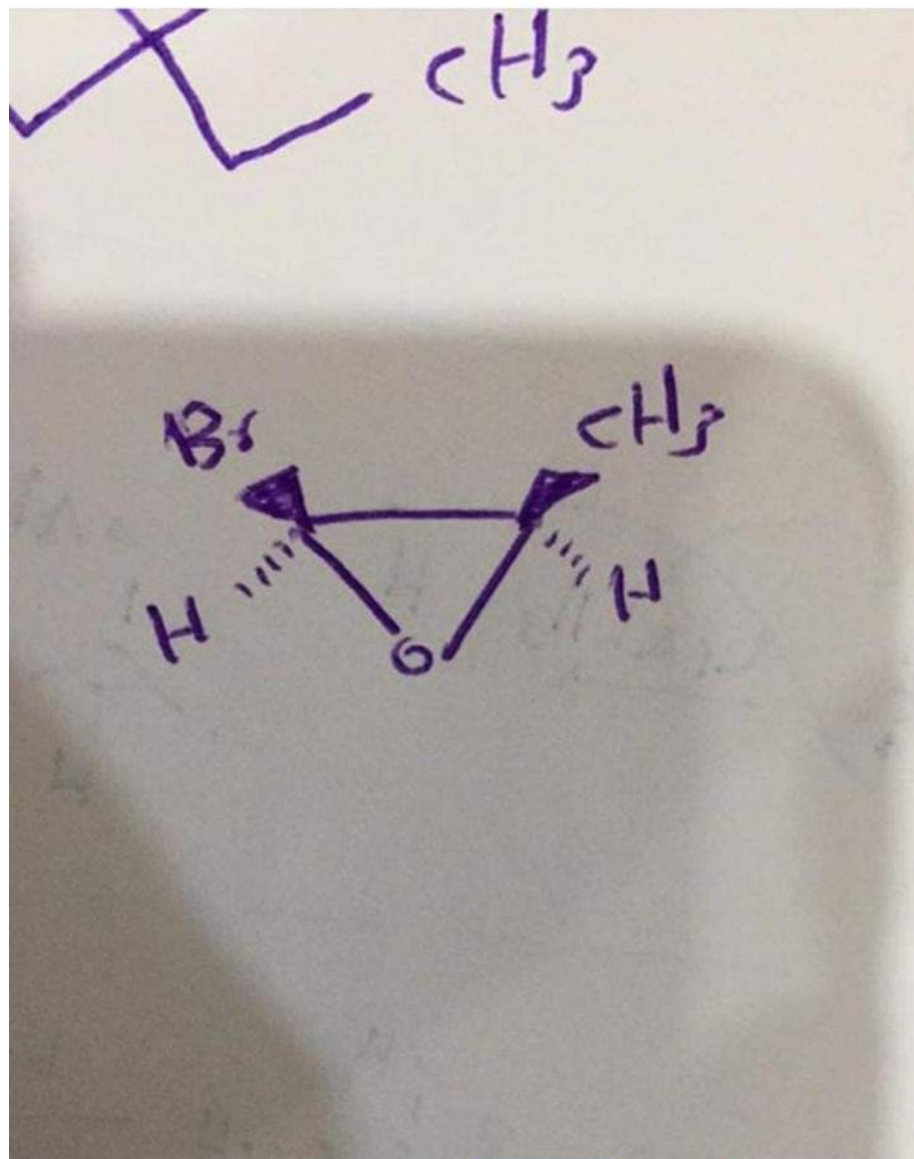


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December 30, 2018 · 🌐

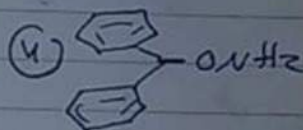
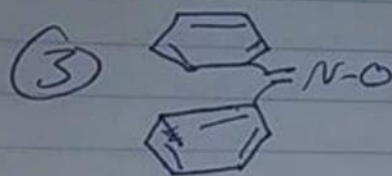
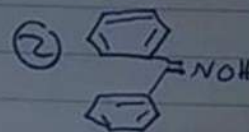
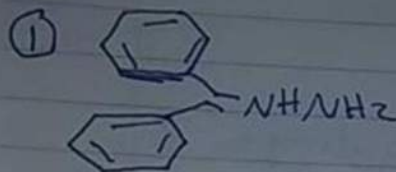
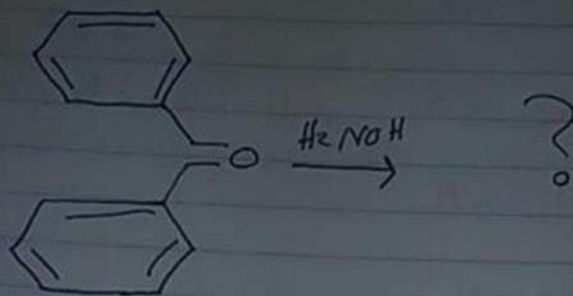


تسمية هذا المركب ???





Shatha's Post





Shatha's Post

* Sodium nitrate with
 HCl at low T ?

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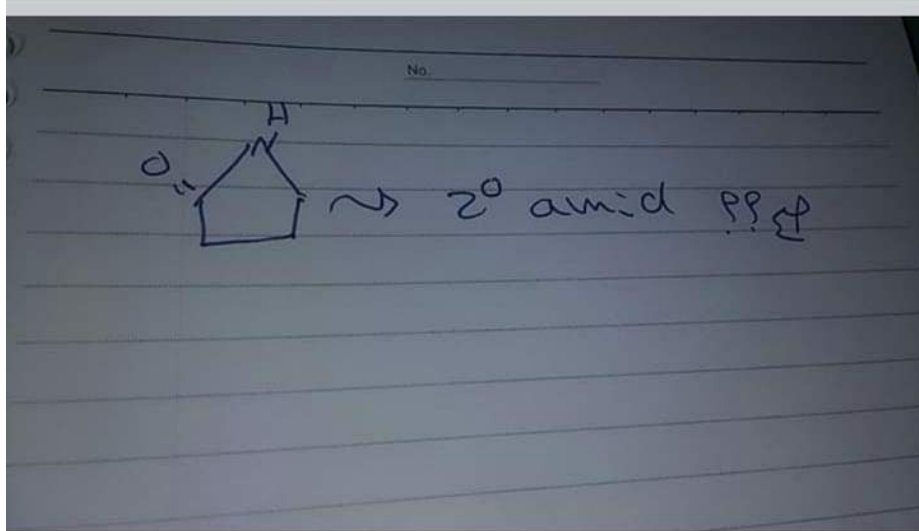
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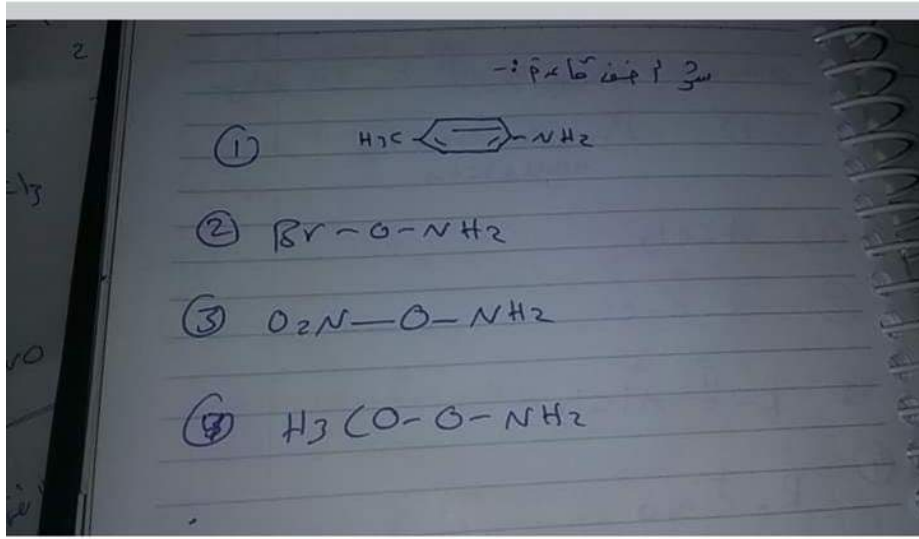
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3 Comments

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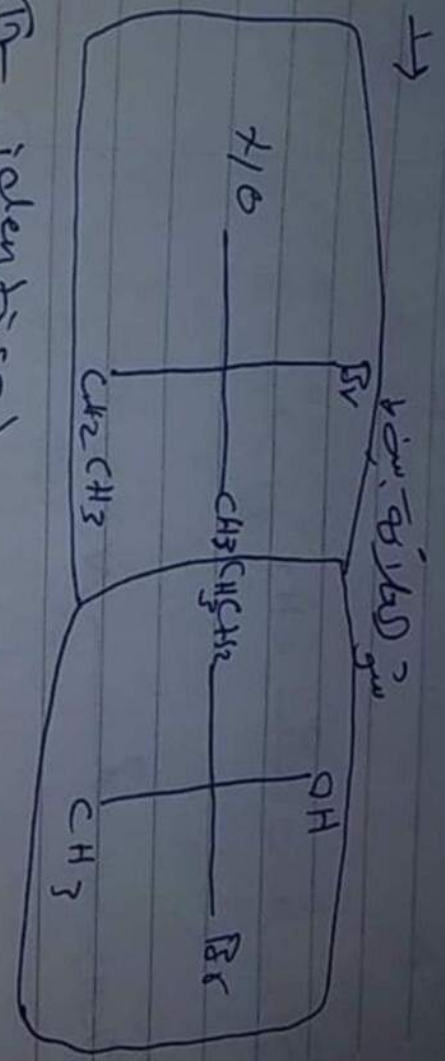
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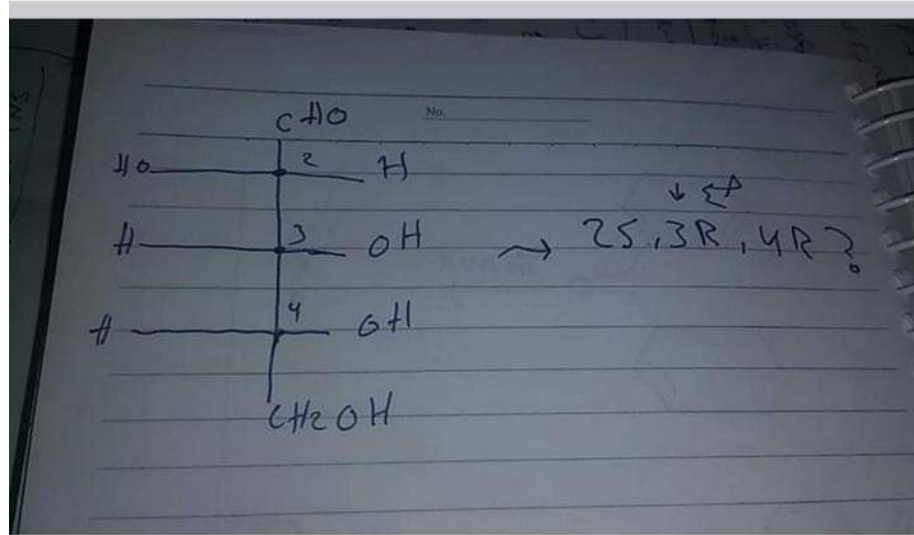
- ① - identical
- ② - Diastereomers.
- ③ - enantiomers.
- ④ both of them have R-configuration
- ⑤ // // // // S - //



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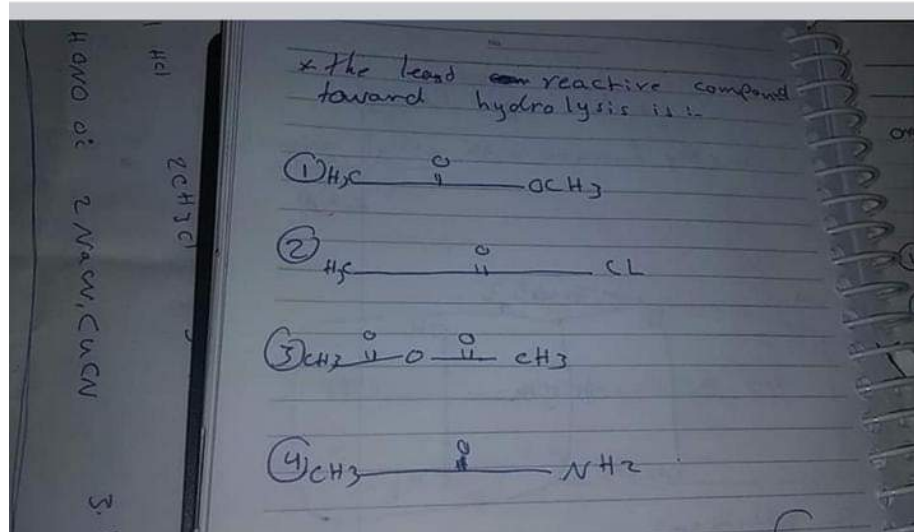
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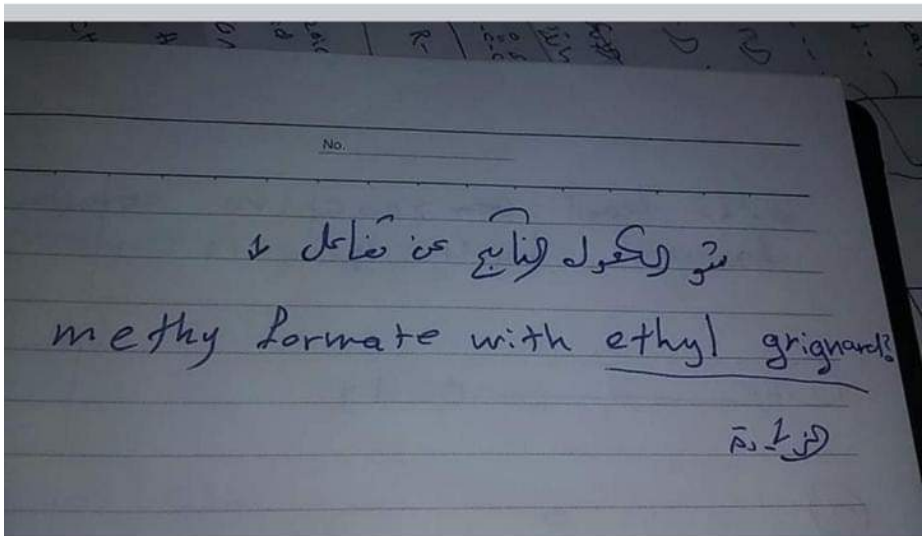


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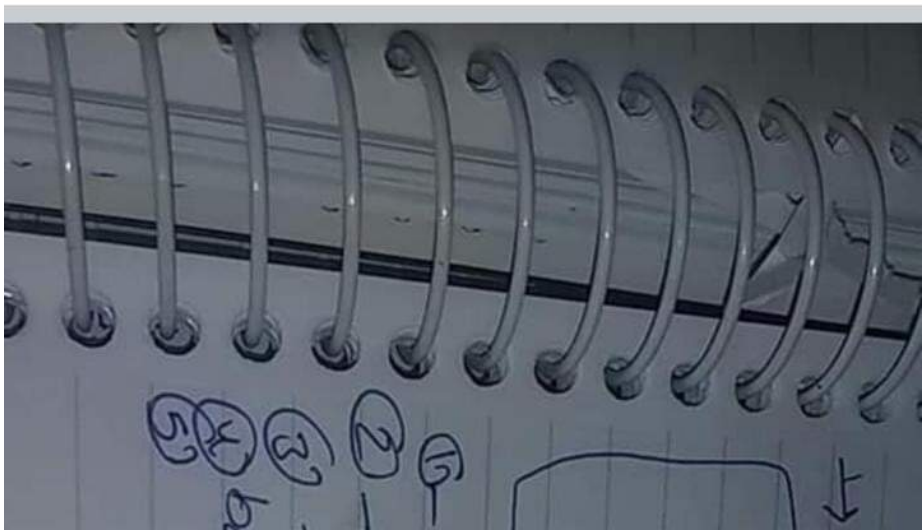
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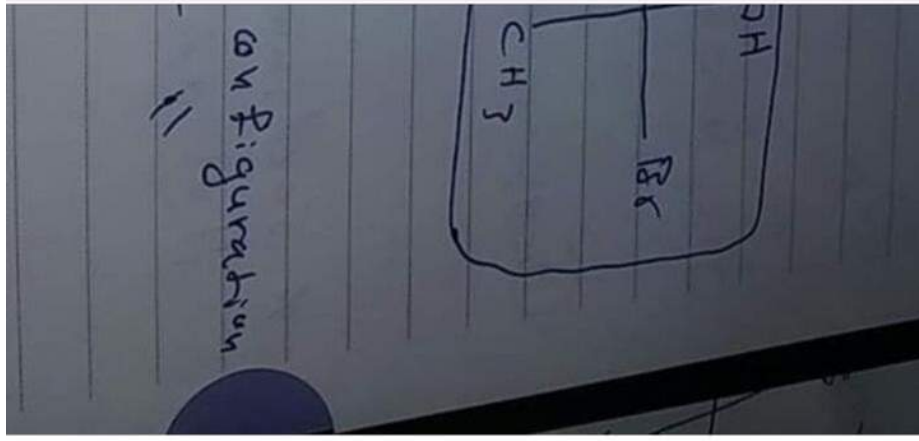


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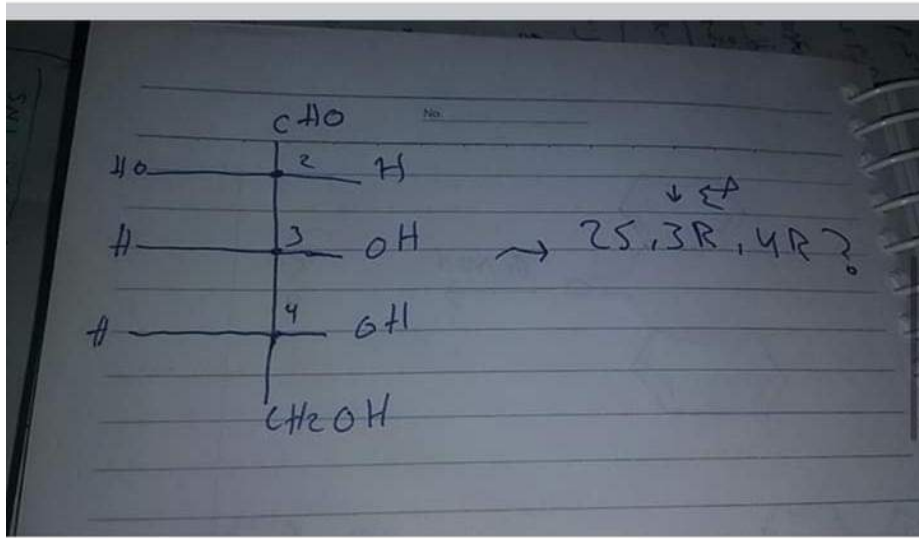
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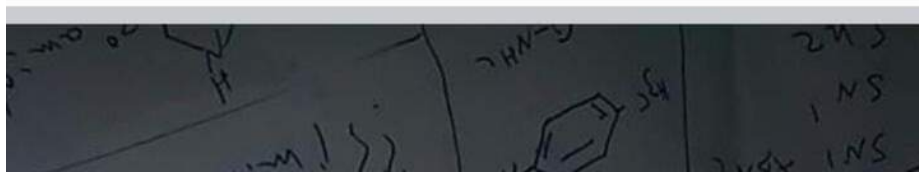
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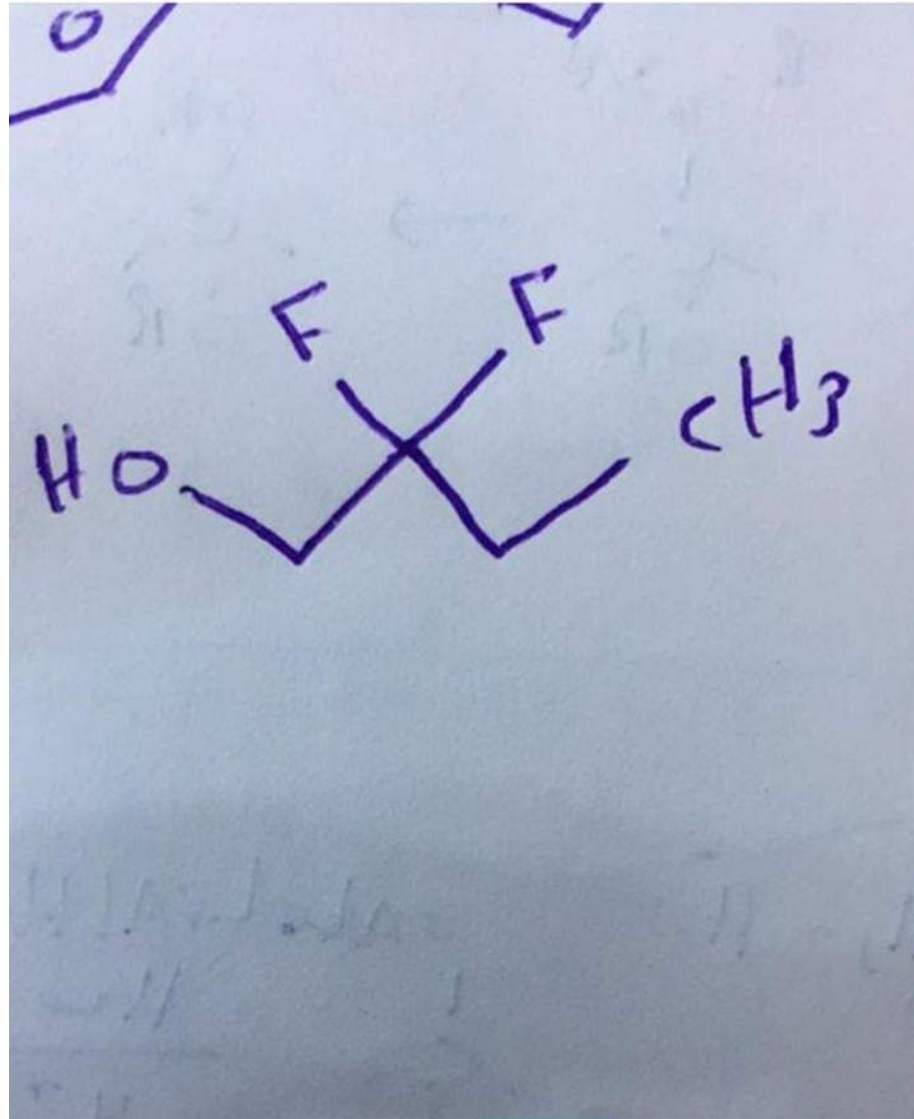


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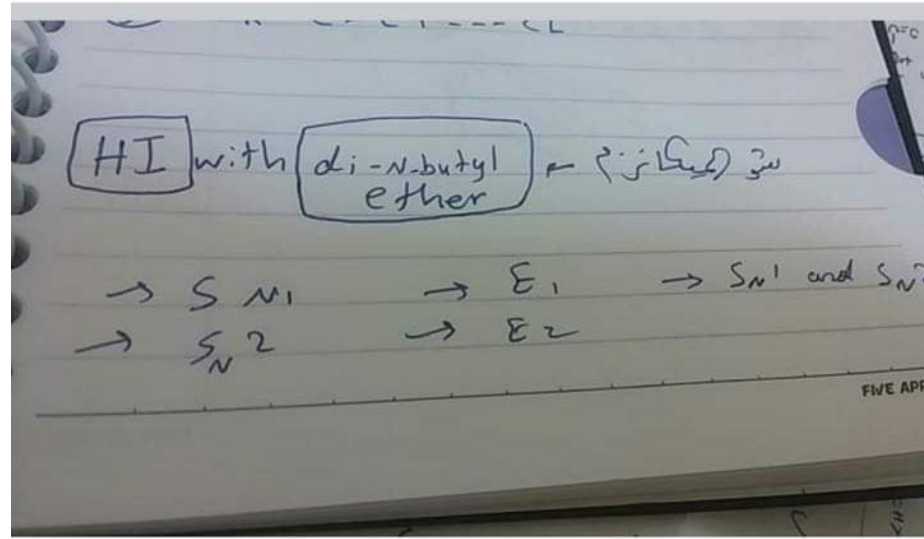


The most acidic hydrogen is found in
واحد من الخيارات كان هذا و كان جوابي



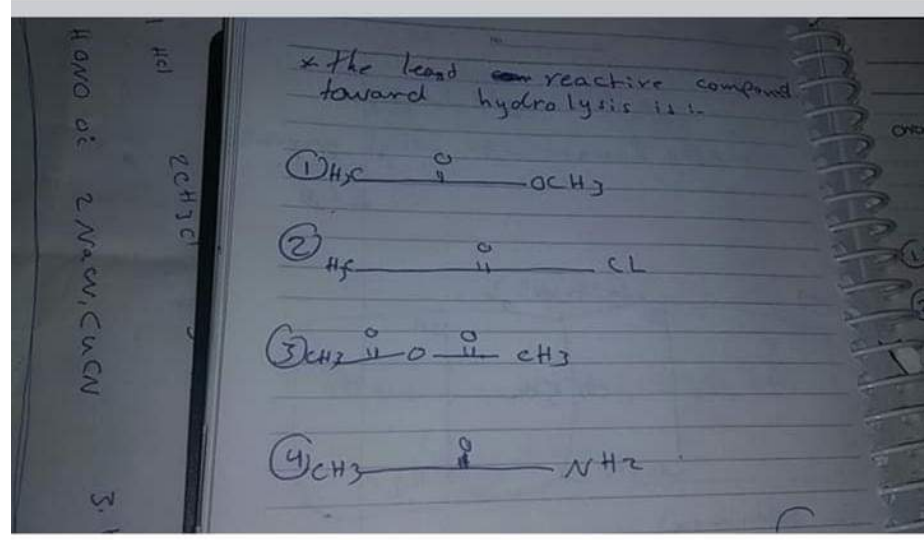
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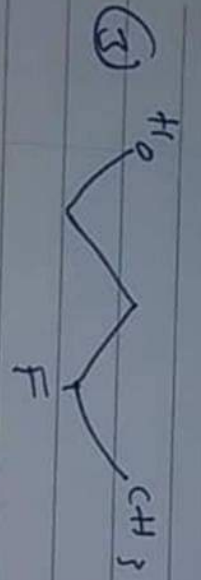
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Strongest acid hydrogen?





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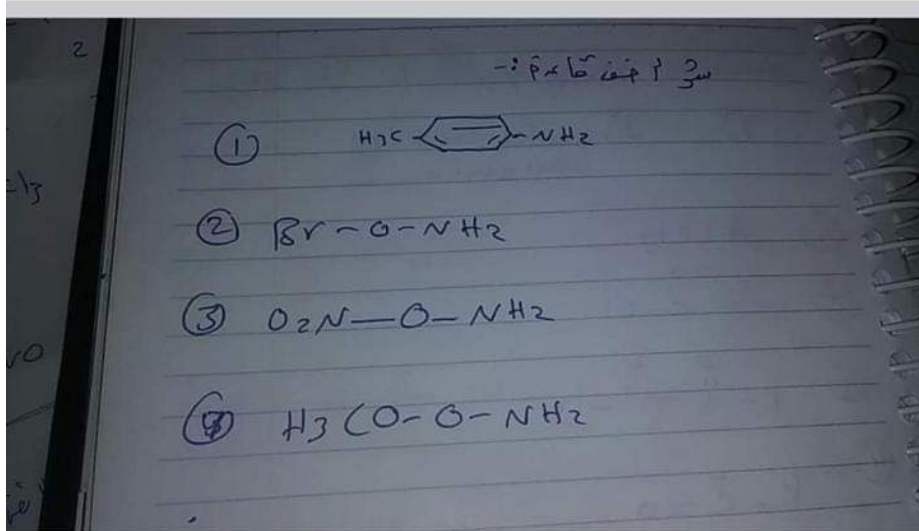
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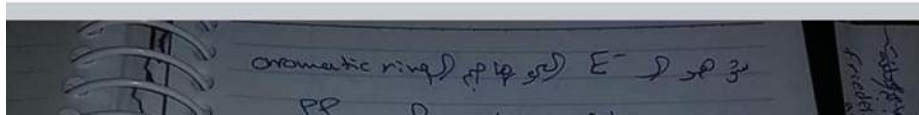
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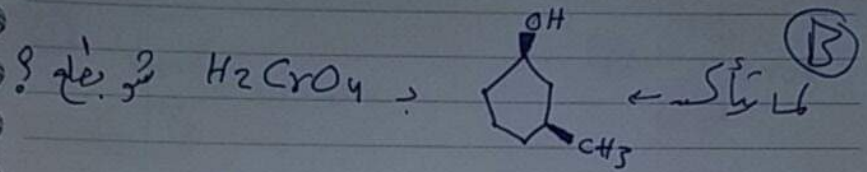
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سؤالات؟ (کیمیاء) (A)

① M, 1, 2, 3, alkyl and aryl halides may be used.

② it can be prepared in presence of other functional group such as hydroxyl group.



① aldehyde, meso \rightarrow optically inactive.

② ketone, optically active.

③ racemic mixture of ketones (optically inactive ketones)

④ ketone, meso, optically inactive?

pressure
cell (RBC) formation

kidneys
(means urine)
formed with the



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**Hamzeh Sar**

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سؤال ما هي التست او الاختبار الي بنميّز فيه
الألل عن البروبل.....



1

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جاب النا صيغ واي وحده منهم هي بتمثل
Hydrazone
وين مكانها بالكتاب صوروها الي
للأجيال القادمة الكتاب ثم الكتاب كلو اكل



Hamzeh Sar

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اغلب الامتحان على الامينات وجابتر ١٠ وقليل من مادة
الفيرست.... واجا سؤال على اي واحدة هي اروماتك رنغ..... ركزو... شو
هيه.... وعلى الهوكل



1

9 Comments

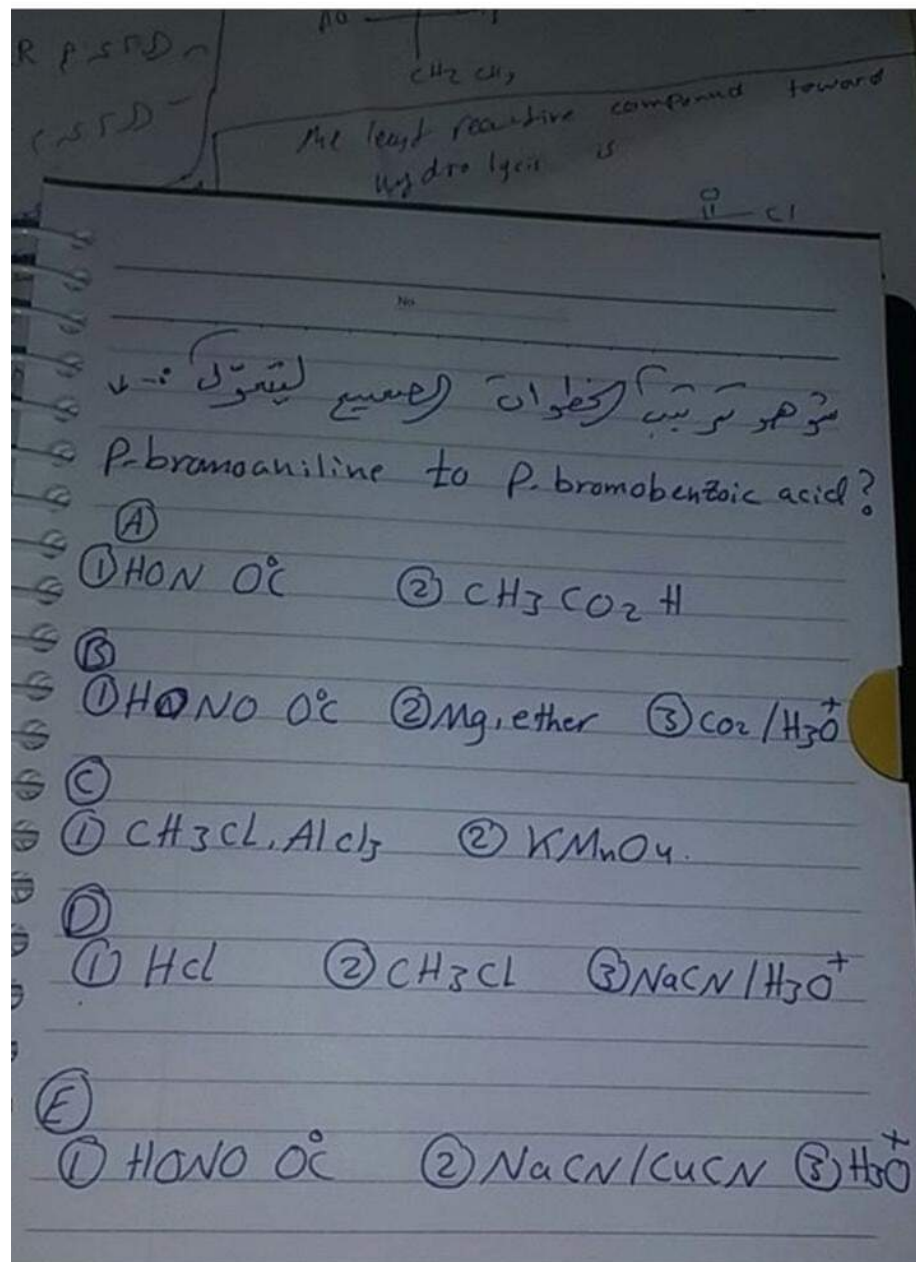
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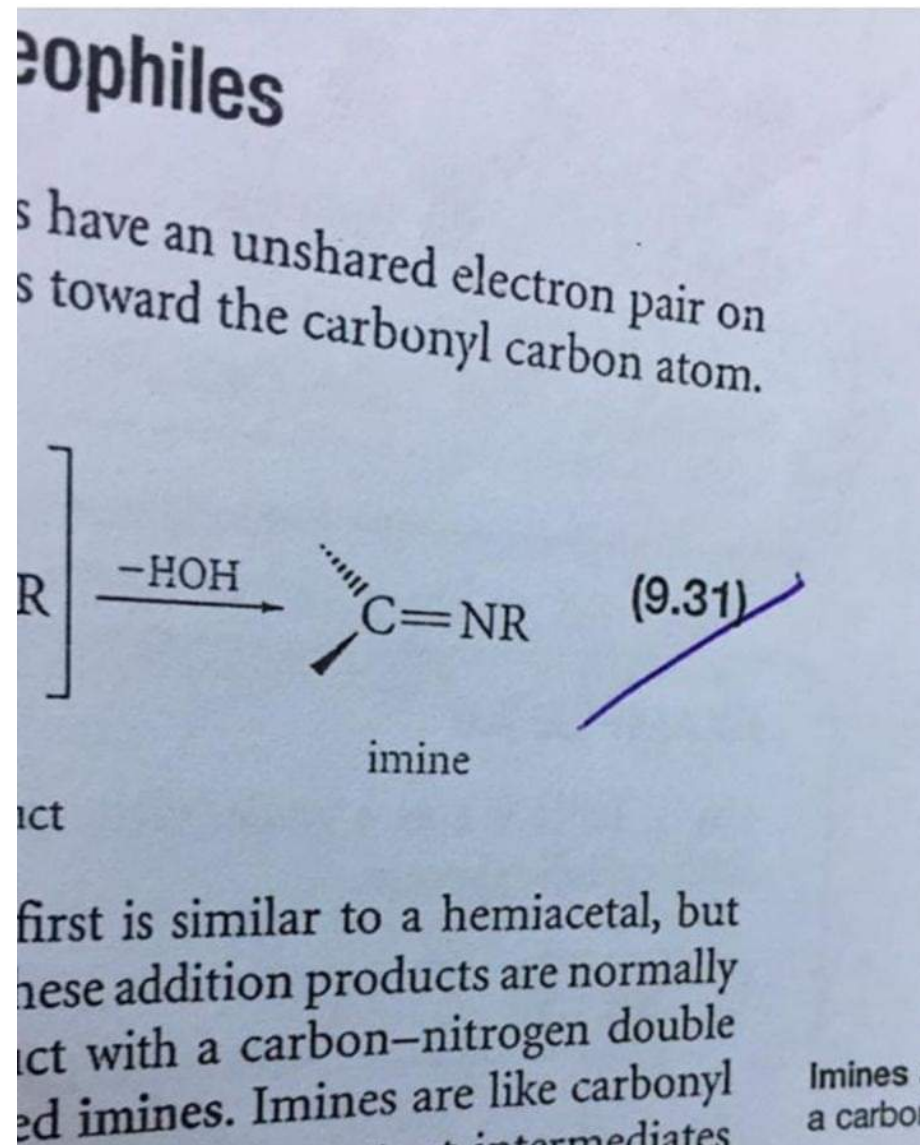
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جاب النا شو صيغة ال

Imine

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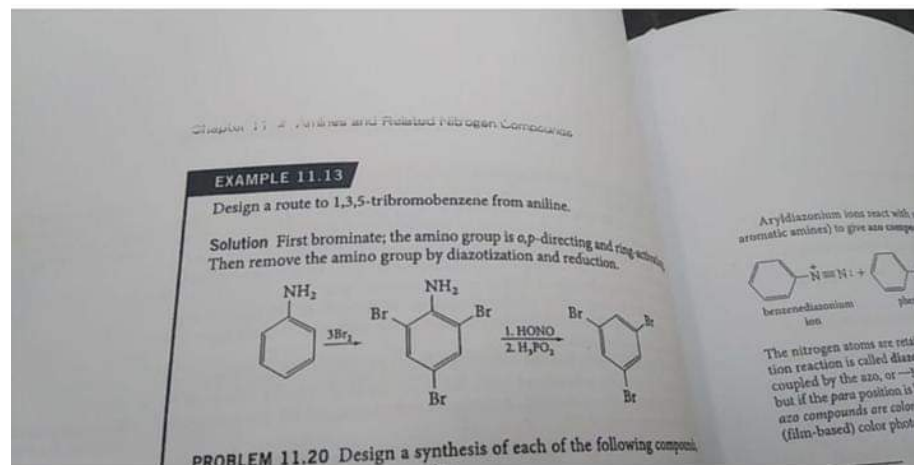


Rokayah Mah

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جواب النا هاذ السؤال



❤️ Hamzeh Sar and 2 others

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Feras A. Ahmad

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عشان الاجيال القادمة ... لا تدرسو المركبات ال
open chain study cycle chain only and I guarantee you
success

👍🙄 Mo'taz Ibrahim and 3 others

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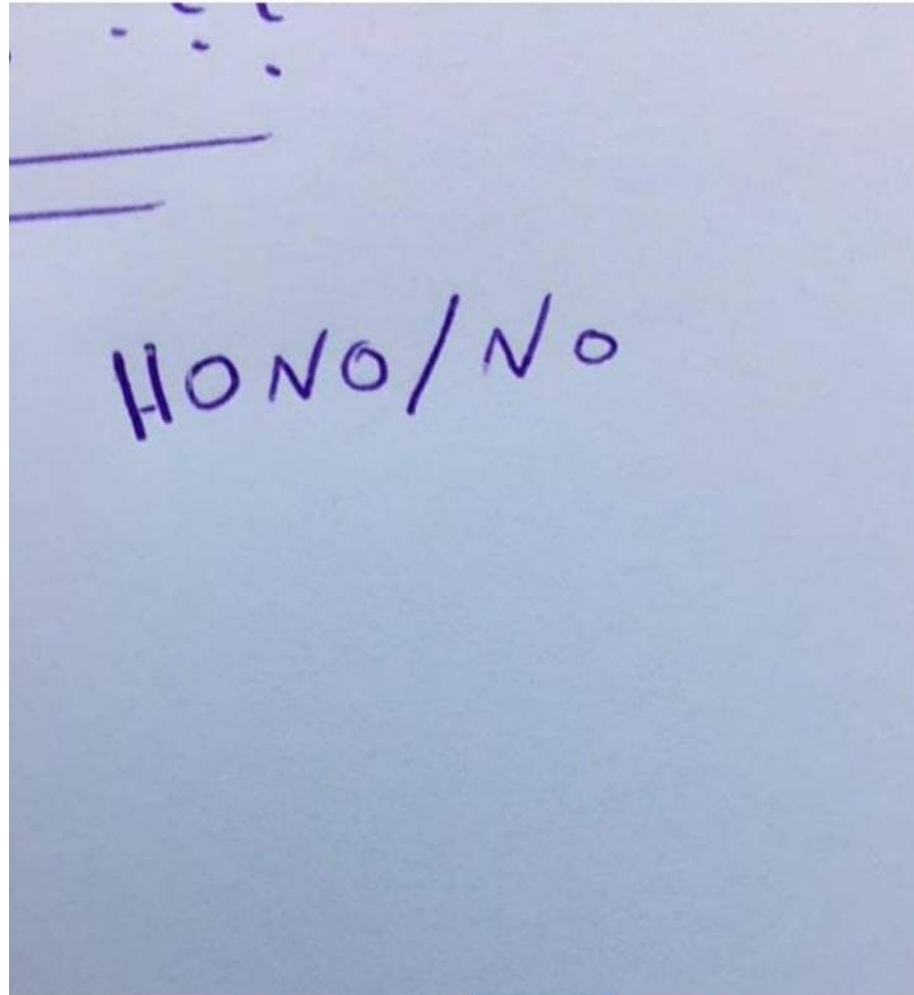


يوسف حاتم الطراونة



December 30, 2018 · 📍

في تكوين ال
Diazonioum salt
شو هو الانترميديت كانه
انا حطيته هذا



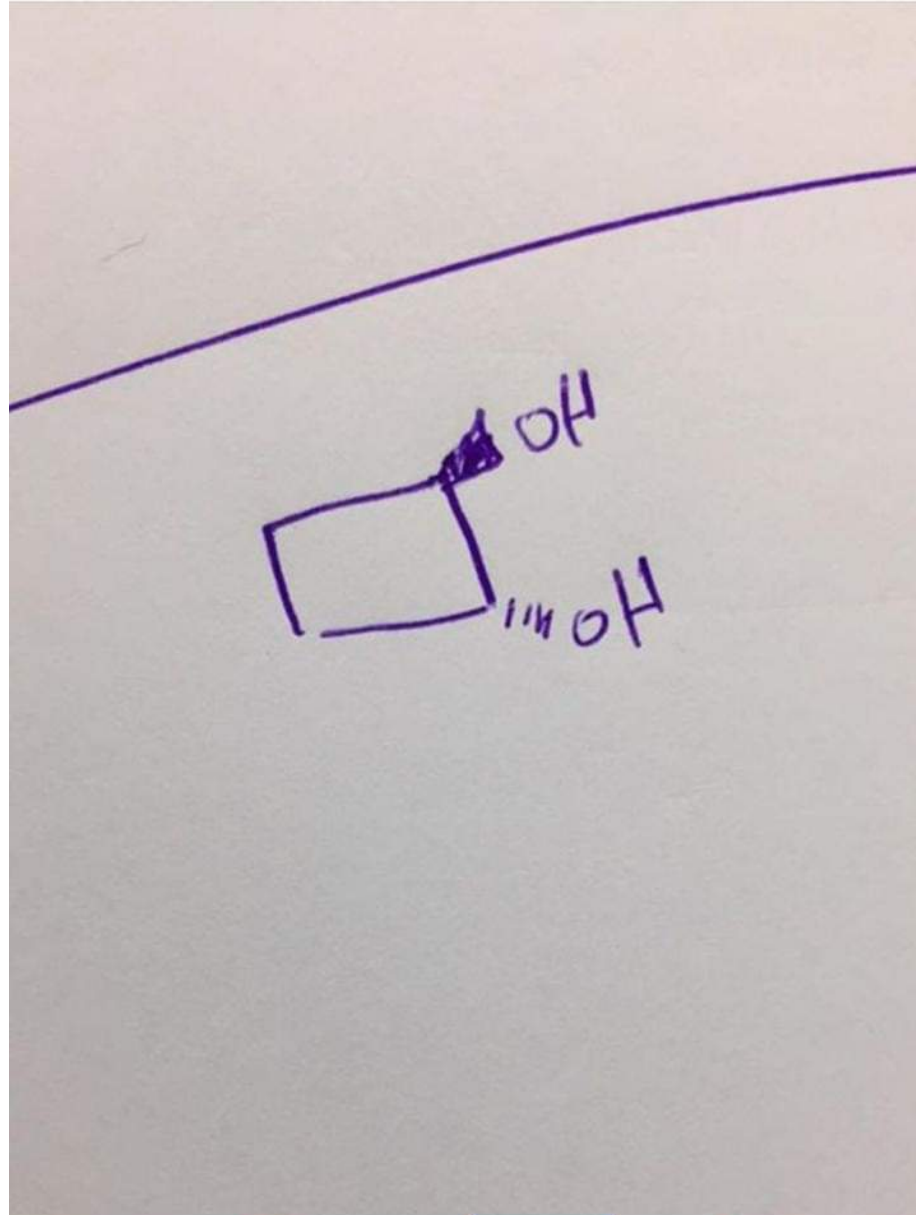


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انا حطيتہ
Chiral



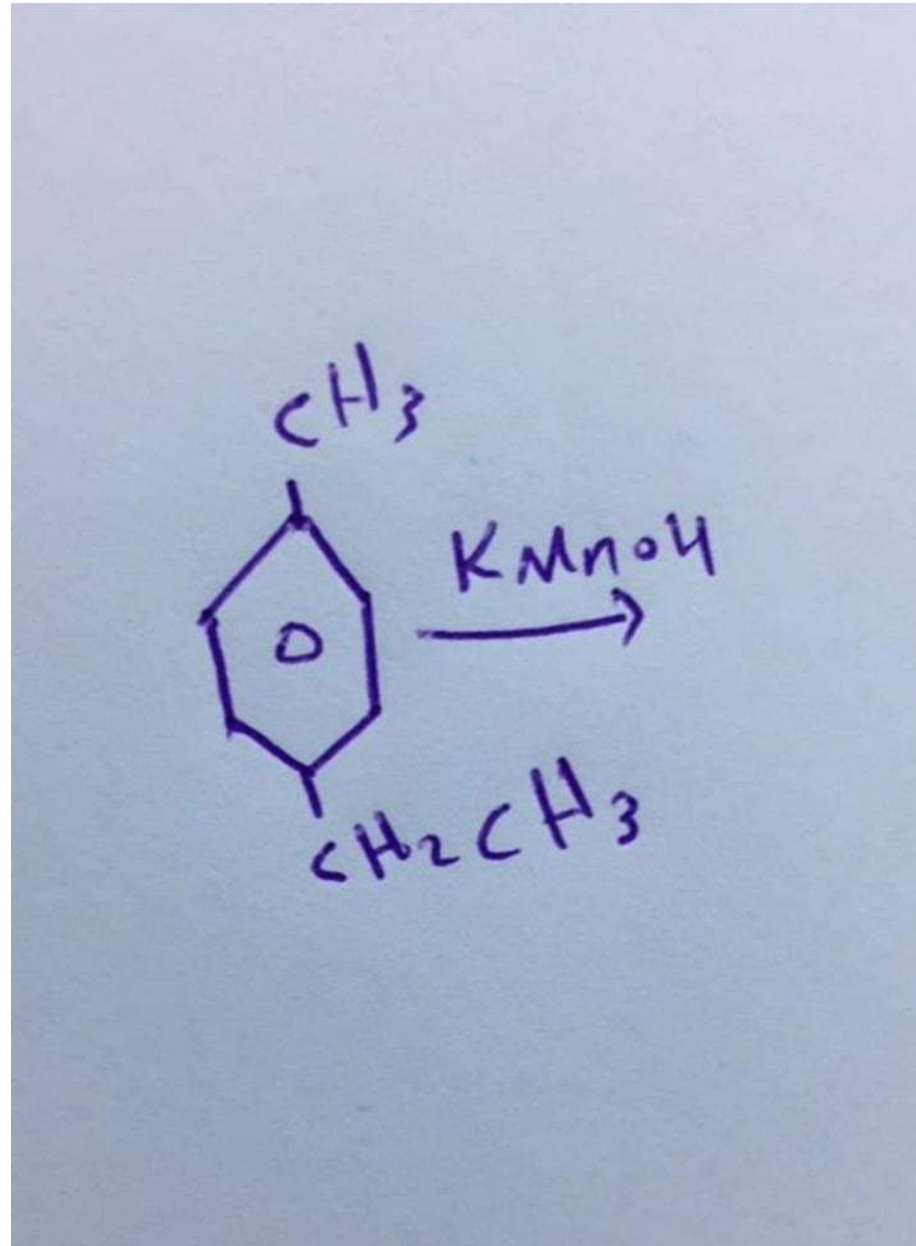


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شو ناتج هذا التفاعل كأنه هذا هو العامل المؤكسد





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students

9

answered

of 1.00

question

The name 2,4-dibromobenzene is incorrect. Which of the following is the correct

Select one:

- a. 1,5-dibromobenzene
- b. dibromobenzene
- c. *m*-dibromobenzene
- d. 3,5-dibromobenzene

10

answered

of 1.00

question

The mechanism of bromination of alkenes with Br_2/CCl_4 proceeds via:

Select one:

- a. electrophilic addition
- b. free radical substitution
- c. Electrophilic substitution
- d. nucleophilic addition

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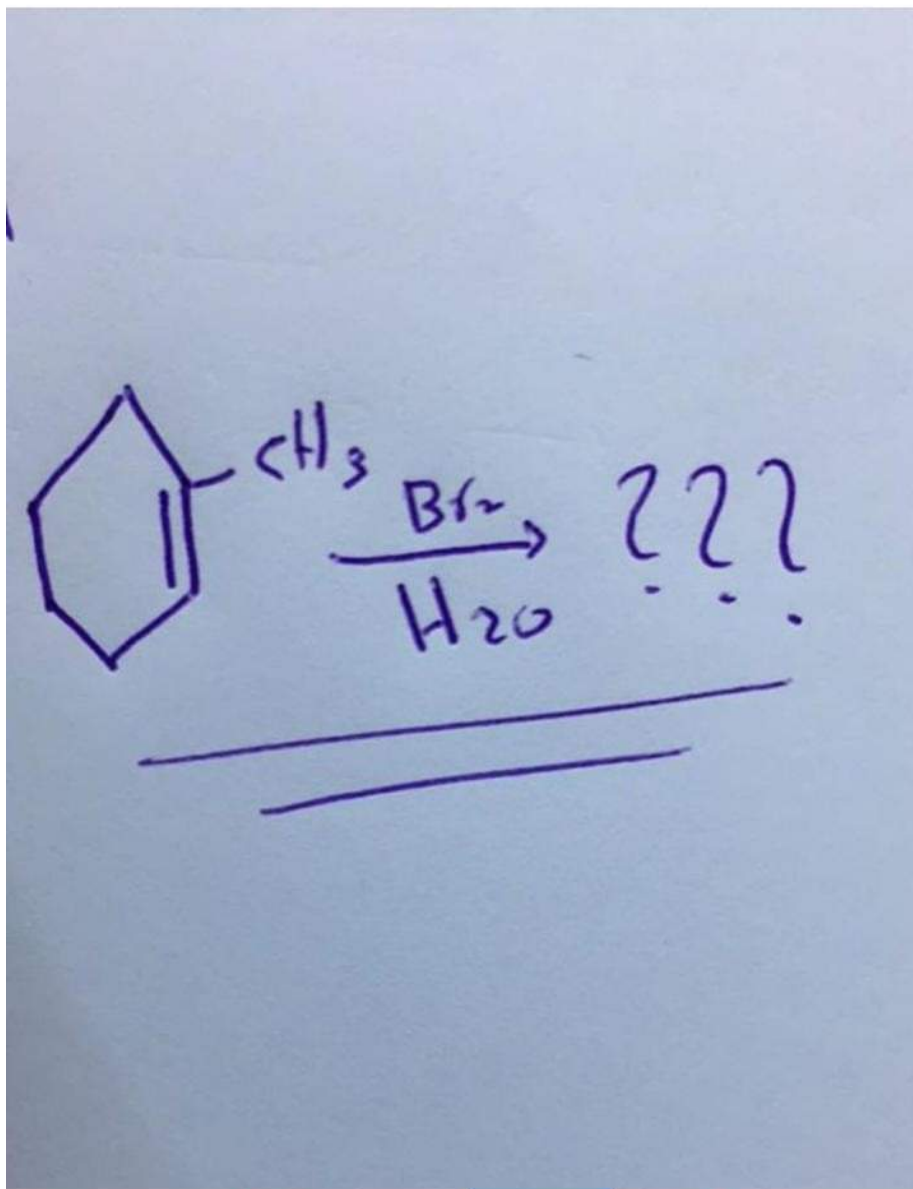


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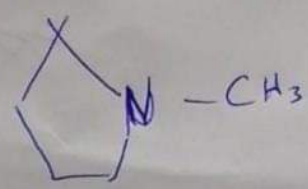
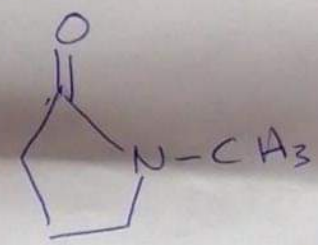
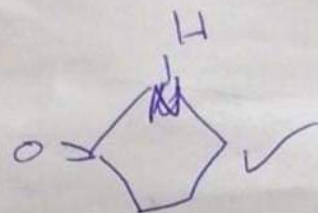
هذا سؤال كان صعب شوي





7

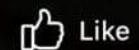
2° amide?



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Hamzeh Sar and 1 other

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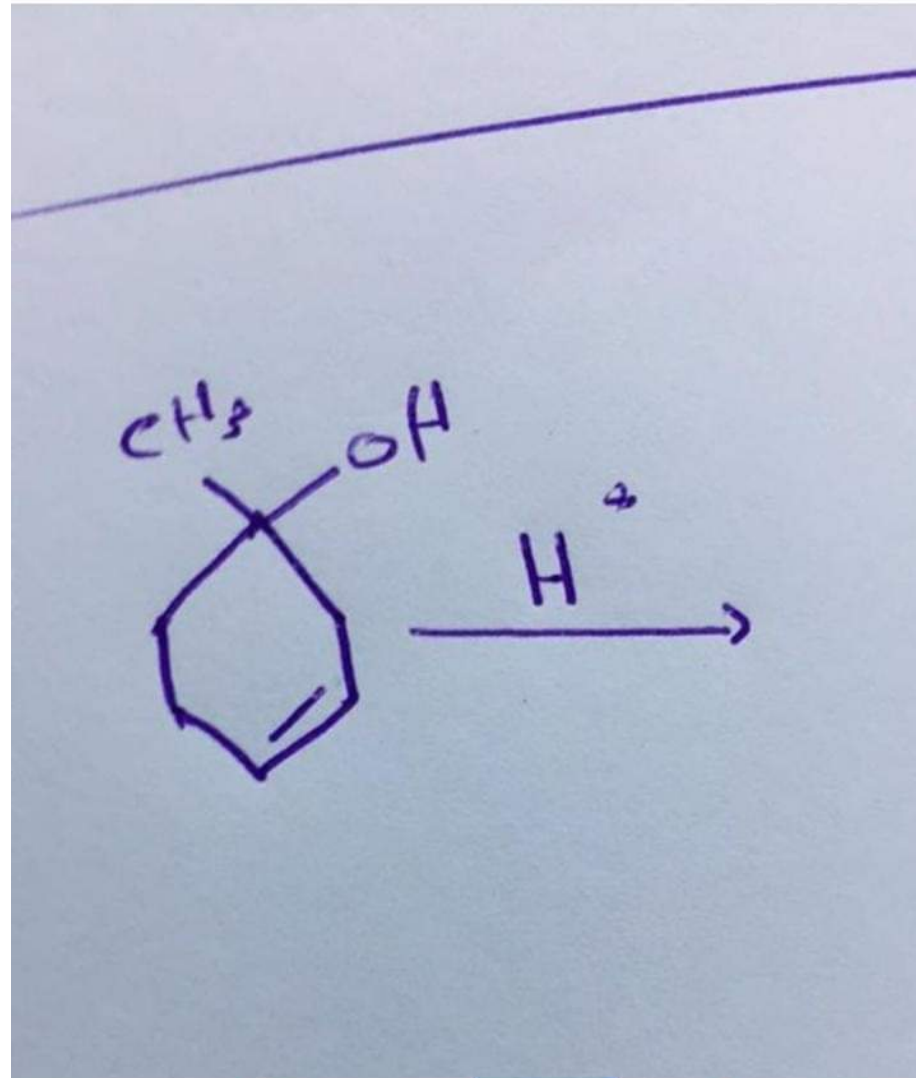
December 30, 2018 · 🌐



شو كان الناتج الاكثر من هذا التفاعل

Dehydration

وجاب النا عدة اشكال نحط مين اكثرهم في النواتج





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ركزوا على الامينات و بالاخص تفاعلات ال
diazonium

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في تكوين ال
Diazonium salt
شو هو الانترميديت كأنه





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جاب النا شو صيغة ال phathalic acid

  Hamzeh Sar and 2 others Like Comment**Rokayah Mah**December 30, 2018 · 

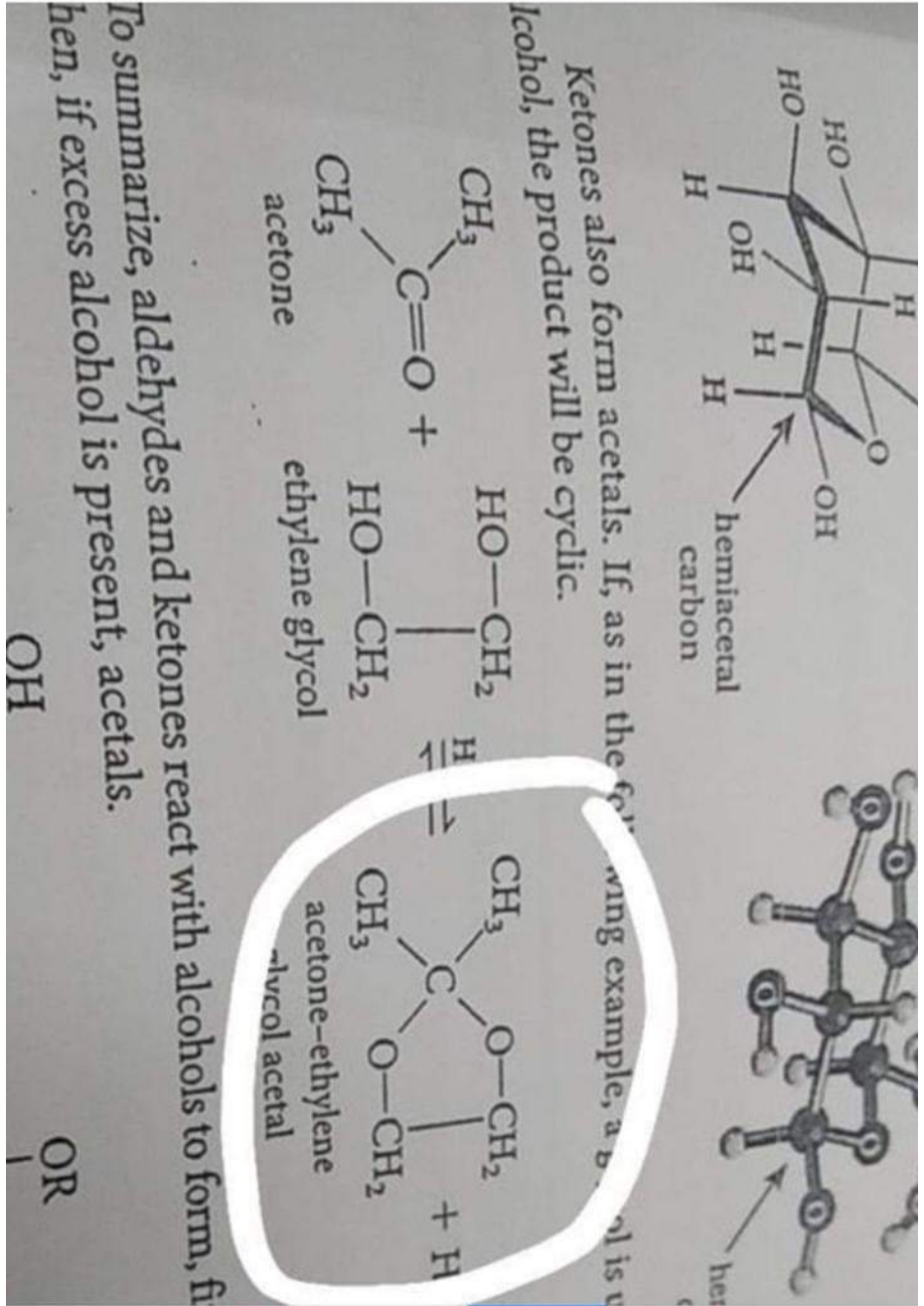
جاب النا الكراون ايثر كيف بنسميه

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1 Comment

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جاب النا شي بطلع هيك الناتج أو كام بين الخيارات





أرشيف اورغانيك فاينال ▶ احمد كمال دويكات

December 30, 2018 · 🧑



في سؤال...

شو نوع mechanism اللي في تفاعل تحطم الايثر بوجود HI...

اتوقع كان الجواب.....



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🔥 Hamzeh Sar and 1 other



Feras A. Ahmad

.

1y Like Reply



Naba Essa Al-Saraireh

Sn1 ? ❤️

1y Like Reply



Feras A. Ahmad

وانا حطيت sn1

1y Like Reply



Feras A. Ahmad

بس مش متأكد ابدا

1y Like Reply



Naba Essa Al-Saraireh

صح صح 🥰❤️



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**Jana Nassar**

December 30, 2018 ·



P-bormoaniline

What is the best method to make it

P-bromobenzoic acid



Hamzeh Sar



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**يوسف حاتم الطراونة**

December 30, 2018 ·



جاب النا شو تسمية

Methylpropylamine

على نظام CA



Hamzeh Sar

3 Comments



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**Jana Nassar**

December 30, 2018 ·



سؤال على صيغه Phthalic acid



Like



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سؤال على صيغته Phthalic acid

Like

Comment



يوسف حاتم الطراونة

December 30, 2018 ·

جاب النا سؤال شو هو شكل ال
Malonic acid

Hamzeh Sar

Like

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Jana Nassar

December 30, 2018 ·

Reaction:

 $R(O^{18})H + RCOOH$ $\{Labeled\ O\} \sim (O^{18})$ بينتج $RCOOR + H_2O$ وين ال Labeled O في النواتج

Hamzeh Sar and 1 other

3 Comments

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Duaa Sarairah

December 30, 2018 ·

الوحيد الي عرفت اقرأه





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يوسف حاتم الطراونة

December 30, 2018 ·



شو شكل
(R) -4- octanol
كأنه هيك كان السؤال

Hamzeh Sar and 1 other

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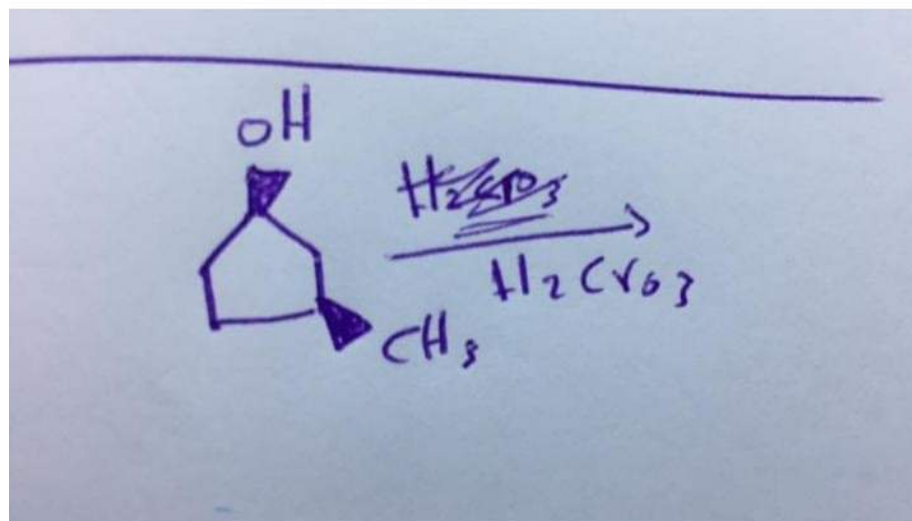


يوسف حاتم الطراونة

December 30, 2018 ·



مش متأكد من العامل المؤكسد طلب شو يكون الناتج
انا حطيت
Optically active ketone



Hamzeh Sar and 4 others

4 Comments



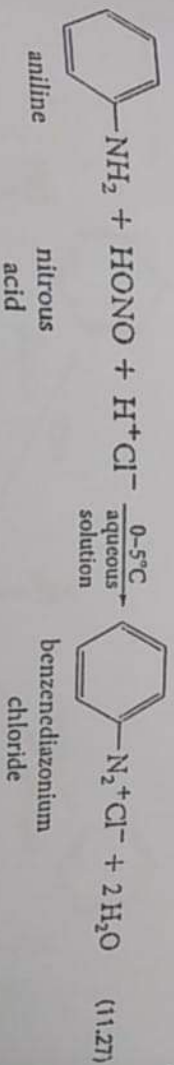
Choline is not only involved in various metabolic processes, but is also the precursor of **acetylcholine** (page 327), a compound that plays a key role in the transmission of nerve impulses. The mushroom *Amanita muscaria* contains the deadly neurotoxin muscarine, which structurally resembles acetylcholine and probably interferes with the function of this neurotransmitter.



Amanita muscaria, a source of muscarine.

11.12 Aromatic Diazonium Compounds

Primary aromatic amines react with nitrous acid at 0°C to yield aryl diazonium ions. The process is called **diazotization**.



In diazotization, primary aromatic amines react with nitrous acid to form aryl diazonium ions.

Diazonium compounds are extremely useful synthetic intermediates. Before we describe their chemistry, let us try to understand the steps in eq. 11.27. First, we need to examine the structure of nitrous acid.

Nitrous acid decomposes rather rapidly at room temperature. It is therefore prepared as needed by treating an aqueous solution of sodium nitrite with a strong acid at ice

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Hamzeh Sar and 1 other

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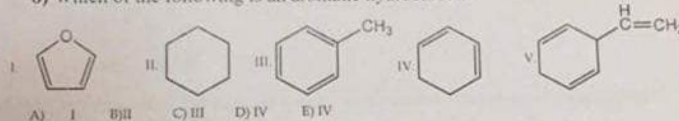
6) Which of the following statements describes the first step in the mechanism of the aldol condensation?

- A) The alpha hydrogen is abstracted by the base to form an enolate anion.
- B) A nucleophilic base attacks the carbonyl oxygen atom.
- C) The carbonyl oxygen is protonated by the base ion.
- D) The alpha hydrogen is abstracted by an acid to the enolate anion.
- E) The carbonyl oxygen of one aldehyde attacks the carbonyl carbon of another.

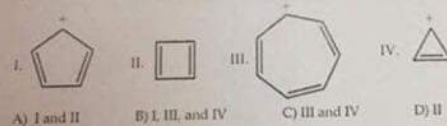
7) Aromatic molecules contain _____ π electron

- A) no
- B) $4n + 2$ (with n being an integer)
- C) $4n + 2$ (with n being 0.5)
- D) $4n$ (with n an integer)
- E) Unpaired

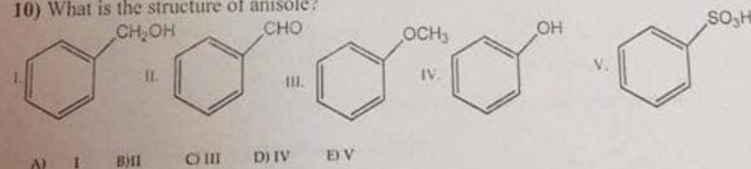
8) Which of the following is an aromatic hydrocarbon?



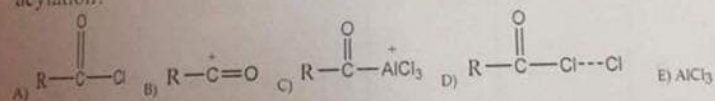
9) Which of the structures below would not be aromatic?



10) What is the structure of anisole?



11) Which of the following is the electrophile that attacks the aromatic ring during Friedel-Crafts acylation?



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12) Which of the following compounds reacts most slowly during nitration?

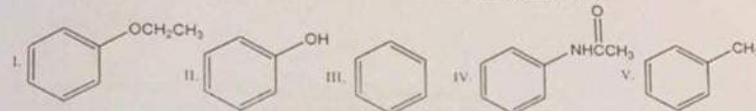


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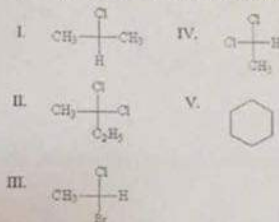
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12) Which of the following compounds reacts most slowly during nitration?



A) I B) II C) III D) IV E) V

13) Which of the following compounds has a chiral carbon atom?

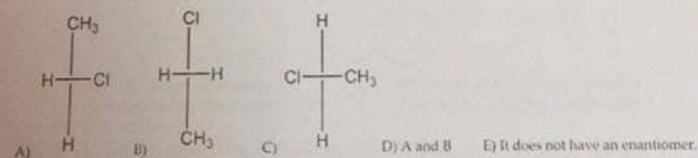


A) I B) II C) III D) IV E) V

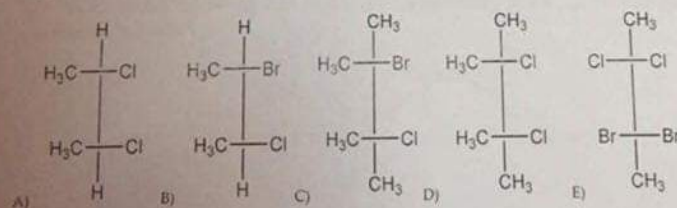
14) How many chiral carbons are present in a molecule of 2,4,6-trimethylheptane?

A) 0 B) 1 C) 2 D) 3 E) 4

15) Which of the following compounds is an enantiomer of the structure below?



16) Which of the following compounds is chiral?



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17) Which of the following statements correctly describes the molecule shown below?



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45) Which of the following is the strongest Bronsted base?

A) B B) C C) D D) A

46) Which of the following is a 3° amine?

A) 1-methylcyclohexylamine B) triethylamine C) *tert*-butylamine D) *N*-methylaniline

47) What product or products are expected from acid-catalyzed hydrolysis of the following compound?

A) Only the starting material itself (no reaction) B) Benzaldehyde and 2,2-dimethyl-1,3-propanediol
C) Benzoic acid and 2,2-dimethyl-1,3-propanediol D) 2-phenyl-1,3-propanediol and acetone

48) Which is the major product of the following reaction?

a) b) c) d)

49) Which is the best procedure for the following preparation?

a) $\text{CH}_3\text{MgBr} \xrightarrow{\text{H}_2\text{SO}_4} \text{K}_2\text{Cr}_2\text{O}_7 \xrightarrow{\text{H}_2\text{SO}_4}$
 b) $\text{AgNH}_2 \xrightarrow{\text{NH}_3/\text{H}_2\text{O}} \text{CH}_3\text{MgBr} \xrightarrow{\text{H}_2\text{SO}_4} \text{NaBH}_4 \xrightarrow{\text{H}_2\text{O}}$
 c) $\text{NaBH}_4 \xrightarrow{\text{H}_2\text{O}} \text{HCl} \xrightarrow{\text{Mg/ether}} \text{H}_2\text{CO} \xrightarrow{\text{PCC}}$
 d) $\text{LiAlH}_4 \xrightarrow{\text{H}_2\text{O}} \text{HBr} \xrightarrow{\text{Mg/conc}} \text{Cl}_2 \xrightarrow{\text{H}_2\text{O}}$

50) Which reactions yield the same carboxylic acid?

I. II. III. IV.

A) I, II B) III, IV C) II, IV D) I, III

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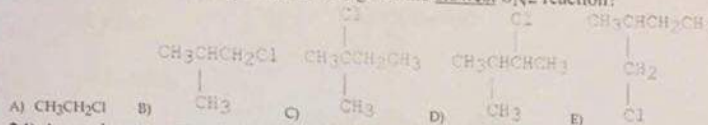
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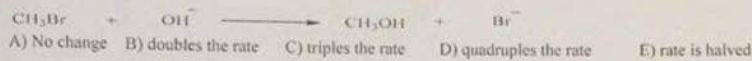
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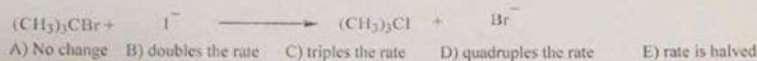
23) Which of the following alkyl halides gives the slowest SN2 reaction?



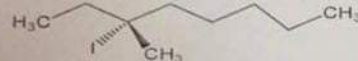
24) Assuming no other changes, what is the effect of doubling only the concentration of the alkyl halide in the reaction below?



25) Assuming no other changes, what is the effect of doubling only the concentration of the iodide ion in the reaction below?

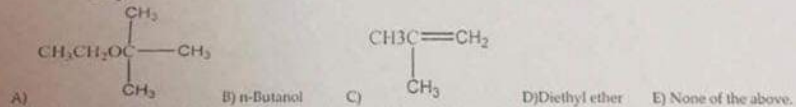
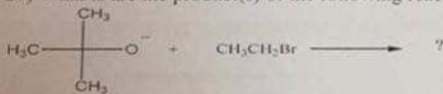


26) How many distinct alkene products, including stereoisomers, are possible when the alkyl iodide below undergoes E2 elimination?

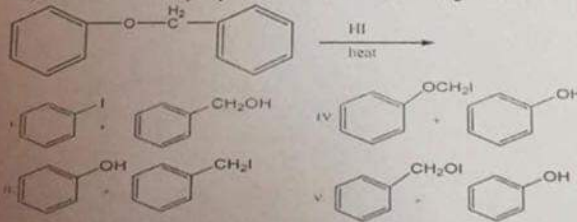


A) 2 B) 4 C) 5 D) 1 E) 3

27) What is/are the product(s) of the following reaction?



28) What are the major products from the following reaction?



A) i B) ii C) iii D) iv E) v



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32) What is the major product of the following reaction?

1- NaBH_4
2- H_3O^+

A) B) C) D) E)

33) Which of the following aldehydes does not undergo an aldol addition when mixed with base?

I. $\text{H}-\text{C}-\text{H}$
II. III. IV. V.

A) I B) II C) III D) IV E) V

34) What is the major product of the following reaction?

I. II. III. IV. V.

A) I B) II C) III D) IV E) V

35) A mixture of unequal amounts of two enantiomers
A) Is called a racemic mixture B) is optically inactive
C) Implies that the enantiomers are meso forms D) both A and B
E) Optically active

36) If a solution contains 1 gm of (S)-glyceraldehyde in 10 ml ethanol has a specific rotation of -8.7° , what is the specific rotation of a solution contains 1 gm of (R)-glyceraldehyde in 5 ml ethanol (cell length = 1 dm)?
A) -8.7° B) $+8.7^\circ$ C) 0.0° D) $+4.35^\circ$ E) $+17.4^\circ$

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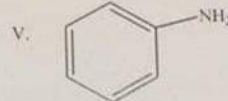
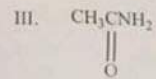
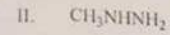
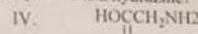
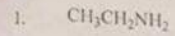
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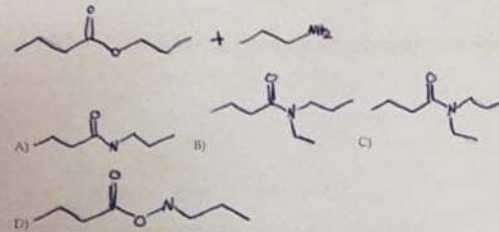
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29) Which of the following compounds is a hydrazine?

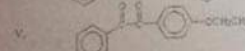
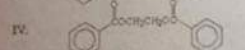
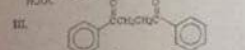
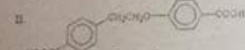
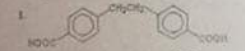
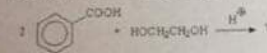


A) I B) II C) III D) IV E) V

30) Provide the product(s) for the following reaction:



31) What is the major organic product of the following reaction?



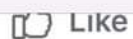
A) I B) II C) III D) IV E) V

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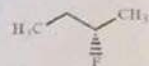
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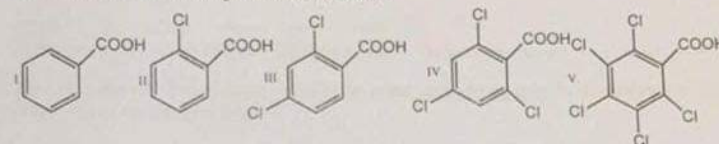


17) Which of the following statements correctly describes the molecule shown below?



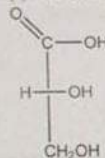
- A) It is achiral. B) It is meso C) Its chiral carbon possesses the R configuration.
D) Its chiral carbon possesses the S configuration E) The molecule possesses two chiral carbons

18) Which of the following is the weakest acid?



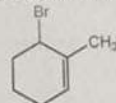
- A) I B) II C) III D) IV E) V

19) What is the absolute configuration of (-)-lactic acid?



- A) R configuration B) L configuration C) S configuration D) R and S configuration E) D and L configuration

20) The proper IUPAC name for the alkene shown below.

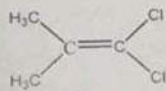


- A) 2-methyl-3-bromocyclohexene B) 1-methyl-6-bromocyclohexene
C) 6-bromo-1-methylcyclohexene D) 6-bromo-1-methylcyclohexene
E) None of the above.

21) Which of the following is capable of exhibiting *cis-trans* isomerism?

- A) 1-butene B) 2-pentene C) cyclohexene D) 1-pentene E) methylcyclohexane.

22) Which of the following best describes the geometry about the carbon-carbon double bond in the alkene below?



- A) Z B) E C) neither E nor Z D) Cis E) Trans



23) Which of the following alkyl halides gives the slowest SN2 reaction?



عبدالله's Post

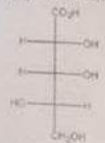


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37) How many enantiomeric pairs exist for the compound below?



- A) 4 B) 3 C) 9 D) 8 E) 16

38) Upon ozonolysis which alkene will give only acetone $(\text{CH}_3)_2\text{C}=\text{O}$?

- A) 2,3-dimethyl-2-butene B) 2,2-dimethyl-2-butene
C) 3-hexene D) 2-methyl-2-pentene
E) 2-methyl-3-hexene

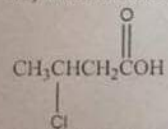
39) Which of the following is the most acidic?

- A) 2,4-dinitroaniline B) 4-nitrophenol C) Picric acid D) 2,4-dinitrophenol E) Phenol

40) Which of the following is the least basic?

- A) 2-Chloroaniline B) 2,4-Dichloroaniline
C) 2,4,6-Trichloroaniline D) Aniline
E) 2,3,4,5,6-Pentachloroaniline

41) What is the common name for the following compound?



- A) γ -Chlorobutanoic acid B) β -Chlorobutanoic acid
C) β -Chlorobutyric acid D) γ -Chlorobutyric acid
E) 3-Chlorobutyric acid

42) The Hinsberg test of a $\text{C}_3\text{H}_{14}\text{N}_2$ compound produces a solid that is insoluble in 10% aq. NaOH . This solid derivative dissolves in 10% aq. sulfuric acid. Which of the following would best fit these facts?

- A) $\text{NH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$ B) $(\text{CH}_3)_2\text{NCH}_2\text{CH}_2\text{NHCH}_3$
C) $\text{NH}_2\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{NH}_2$ D) $(\text{CH}_3)_2\text{NCH}_2\text{N}(\text{CH}_3)_2$

43) Reaction of *para*-chloroaniline with acetic anhydride in pyridine gave a mixture of 94% of *para*-chloroacetanilide, contaminated with 6% unreacted amine. Which of the following work-ups would be best used to purify the amide?

- A) React the unreacted amine with methyl iodide.
B) Wash an ether solution of the crude product with concentrated brine (aq. NaCl).
C) Wash an ether solution of the crude product with 5% aqueous sulfuric acid.
D) Wash an ether solution of the crude product with 5% aqueous sodium carbonate

44) Which of the following reagents would be best for converting phenylacetamide ($\text{C}_6\text{H}_5\text{CH}_2\text{CONH}_2$) to benzylamine ($\text{C}_6\text{H}_5\text{CH}_2\text{NH}_2$)?

- A) LiAlH_4 in ether. B) H_2 & Pt catalyst. C) Aqueous NaOBr . D) None of the above



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