

Another name of the toluene aminobenzene is alanine.

Select one:

- ☐ a. True
- ☐ b. False

Question **6**

Not yet answered

Marked out of 1.50

- ☐ a. True
- ☐ b. False

Question **2**

Not yet answered

Marked out of 1.50

🚩 Flag question

Which of the following alcohols will be produce from the dehydration reaction of 2-butene in the presence of conc. H_2SO_4 ?

Select one:

- ☐ a. Butane-2-ol
- ☐ b. 2-methyl propene-2-ol
- ☐ c. 2-methyl 1 -propanol
- ☐ d. Butane 1-ol

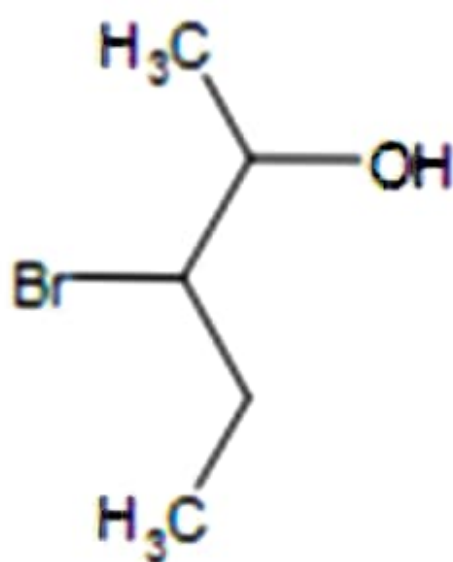
Question 3

Not yet answered

Marked out of 1.50

Flag question

The name of this structure is 3-bromo-4-pentanol.



Select one:

- ☐ a. True
- ☐ b. False

Question **4**

Not yet answered

Marked out of 1.50

🚩 Flag question

Aromatic compounds give light yellow flame.

Select one:

- ☐ a. True
- ☐ b. False

Question **5**

Not yet answered

Marked out of 1.50

🚩 Flag question

Question **1**

Not yet answered

Marked out of 1.50

🚩 Flag question

Aromatic compounds could undergo reactions without retained the aromatic ring.

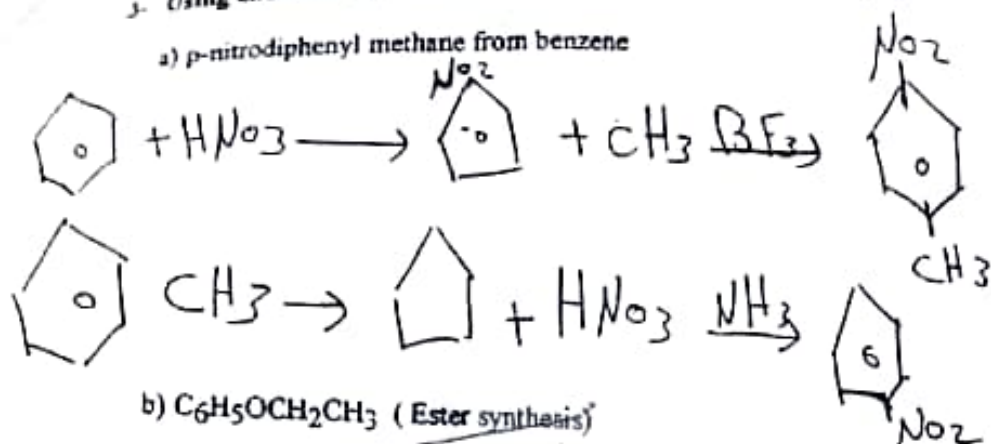
Select one:

- ☐ a. True
- ☐ b. False

How you can convert hex-3-ene to 1,2-dichlorohexan-3-ol?

3. Using chemical equations, show how can you prepare: (10pts)

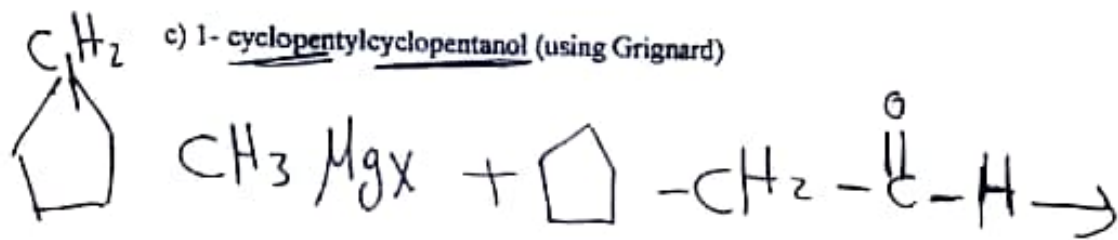
a) p-nitrodiphenyl methane from benzene



b) $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_3$ (Ester synthesis)



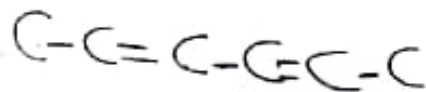
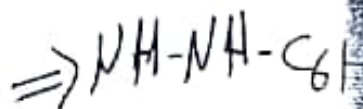
c) 1-cyclopentylcyclopentanol (using Grignard)



4. a) Draw the structure of the following: (10pts)

1- 2,4-hexadiene

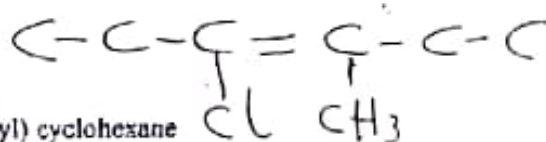
2- Phenyl hydrazine



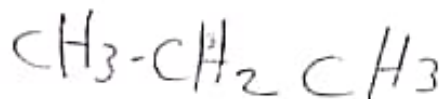
3- Naphtalene



4 (E)-3 Chloro-4-methyl 3-hexene

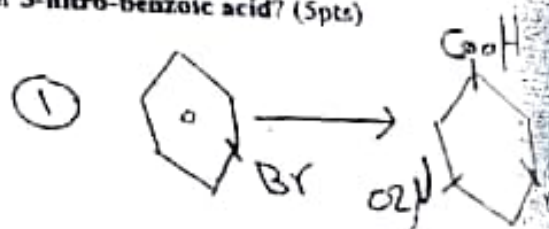
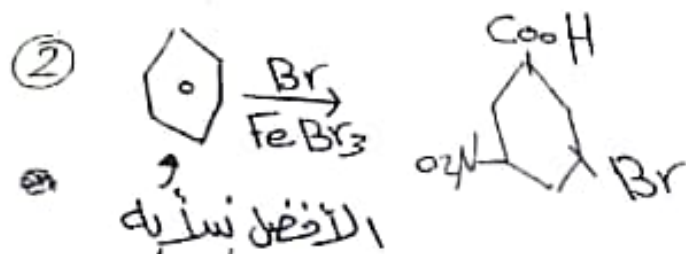


5- Cis-1-chloro-3 (1-methylethyl) cyclohexane



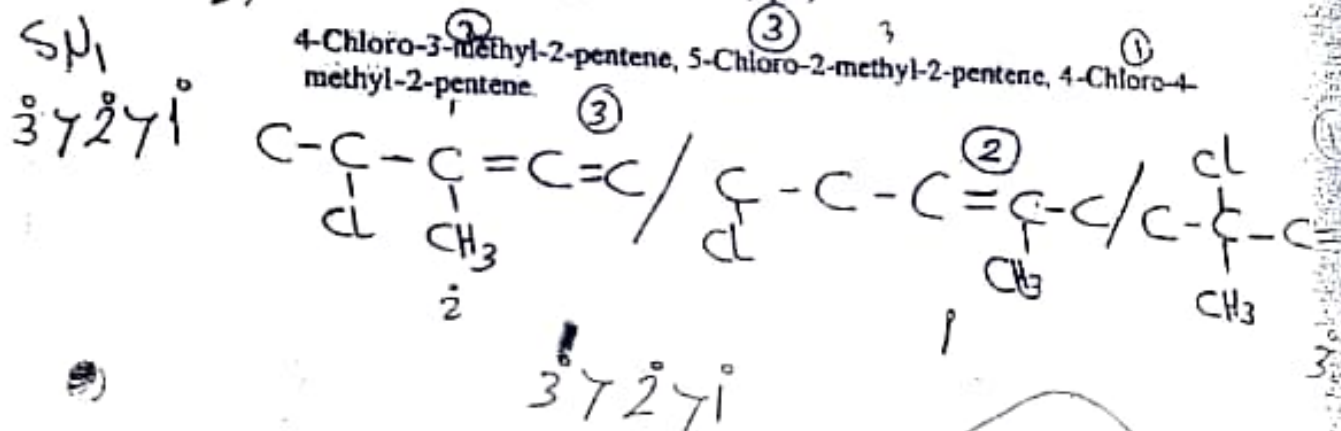
Answer the following questions:

- 1) a) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material: 3-bromobenzoic acid or 3-nitro-benzoic acid? (5pts)



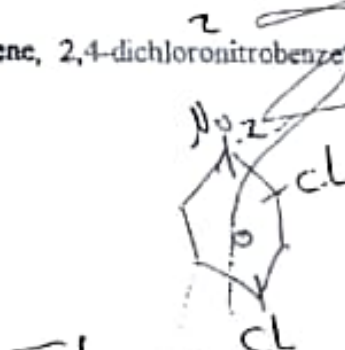
- ⇒ b) Arrange toward S_N1 reaction: (3pts)

4-Chloro-3-methyl-2-pentene, 5-Chloro-2-methyl-2-pentene, 4-Chloro-4-methyl-2-pentene



- ⇒ c) Arrange the following in order of reactivity toward ring bromination: (2pts)

P-Chloronitrobenzene, 2,4-dichloronitrobenzene, Nitrobenzene



2 مجموعة غير متشابهة

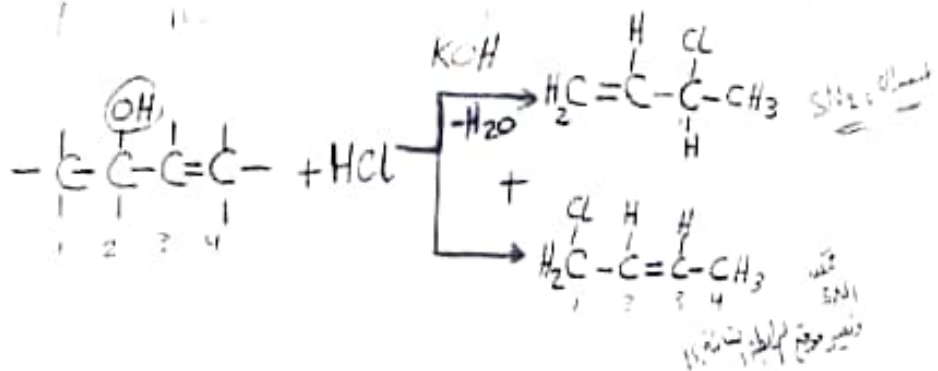
3 مجموعة غير متشابهة

اثنين غير متشابهة

استنتج

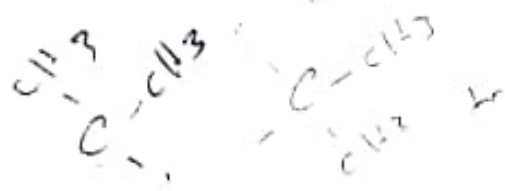
5- a) Treatment of 3-butene-2-ol with Conc. HCl gives a mixture of two products, 3-Chloro-1-butene and 1-Chloro-2-butene. Explain how both products are formed by mechanism? (5 pts)

chapter 7
12 q 12



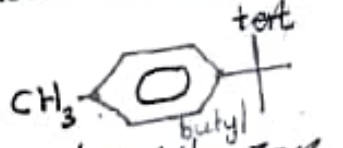
b) Baeyer Strain theory explained the stability of cycloalkanes by means of heat of combustion. Explain? (5 pts)

12 q 15



5- Name the following compounds: (10pts)

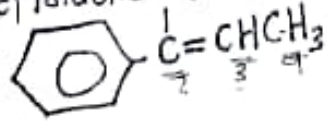
chapter (4) 1- (3)



P-methyl-tert-butylbenzene

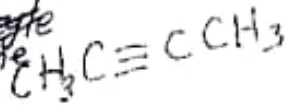


chapter (4) 2- (3)



2-butene benzen

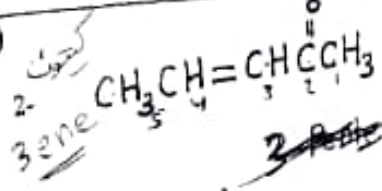
2-phenyl-2-butene



2-butyne

chapter (3)

butan-2-yne



2-pentene



chair boat

2-butene

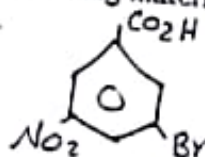
P-methyl-tert

Al-Azhar University-GAZA
Chemistry department
Organic Chemistry for biological Science
Final Exam. Jan., 22, 2008

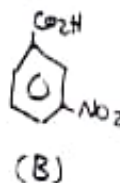
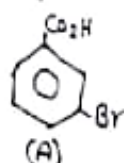
Answer the following questions:

Chapter 1

a) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material: 3-bromobenzoic acid or 3-nitro-benzoic acid? (5pts)



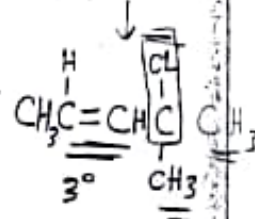
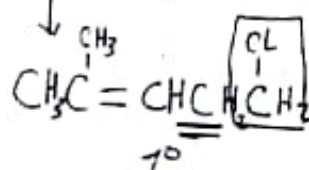
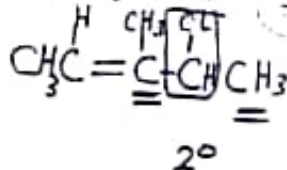
المركب النهائي



- * لو بدأنا في المركب A عند إضافة NO_2 فإنها ستكون مركب P مع Br في النهاية المطلوب.
- * لو بدأنا في المركب B عند إضافة Br فإنها ستكون مركب (m) مع NO_2 في النهاية المطلوب.
- b) Arrange toward $\text{S}_{\text{N}}1$ reaction: (3pts)

Chapter 6

4-Chloro-3-methyl-2-pentene, 5-Chloro-2-methyl-2-pentene, 4-Chloro-4-methyl-2-pentene.

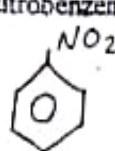
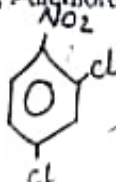
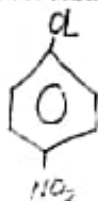


$\text{S}_{\text{N}}1$ Prefer reaction that $3^\circ > 2^\circ > 1^\circ > \text{CH}_3$

the correct arrange: 4-chloro-4-methyl-2-pentene > 4-chloro-3-methyl-2-pentene > 5-chloro-2-methyl-2-pentene

c) Arrange the following in order of reactivity toward ring bromination: (2pts)

P-Chloronitrobenzene, 2,4-dichloronitrobenzene, Nitrobenzene.



2 محبوبة

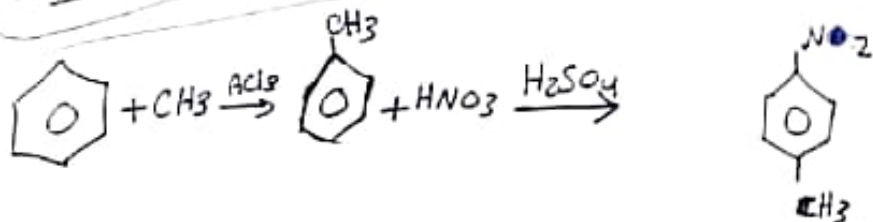
3 محبوبة

تحت محبوبة

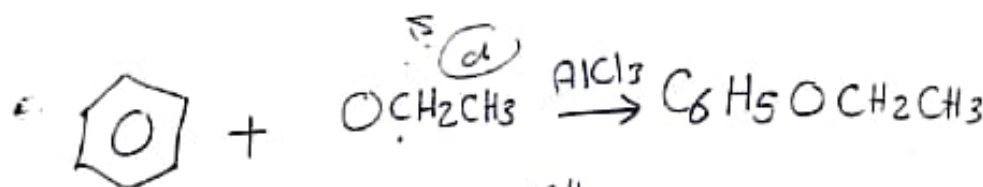
Chapter 4

3. Using chemical equations, show how can you prepare: (10pts)

a) p-nitrodiphenyl methane from benzene



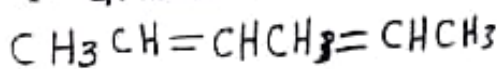
b) $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_3$ (Ester synthesis)



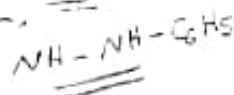
c) 1-cyclopentylcyclopentanol (using Grignard) $\Rightarrow$

4 a) Draw the structure of the following: (10pts)

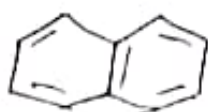
Chapter(3) 1- 2,4-hexadiene



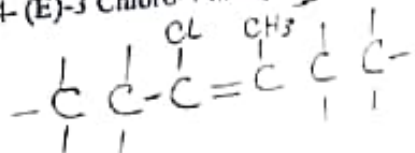
2- Phenyl hydrazine



Chapter(4) 3- Naphtalene

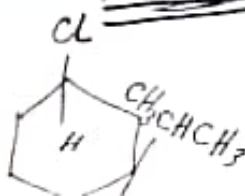


4- (E)-3 Chloro-4-methyl 3-hexene Chapter (5)



Chapter(2)

5- Cis-1-chloro-3 (1-methylethyl) cyclohexane

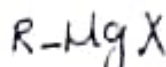


مطلوب

Discuss briefly the following (give an example if any..) (10pts)

a) Grignard reagent

are alkyl- or arylmagnesium halides.



- طريقة لتحضير الألكان.

b) Racemic modification

mixture of equal Parts of enantiomers

the first (+) and the second is a (-)

(SN)

- وجود المركب بالصورة الأصلية عند ما يكون موجودين بنفس الوقت (الأصلية) بصورة

c) Cross Aldol condensation

an enolate anion adds to the Carbonyl group of an aldehyde or ketone in an

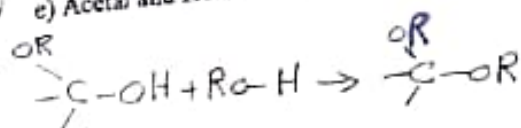
"aldol condensation"

- من شروط التفاعل وجود ربيون تقوي على α موضع وسط قاعدي

d) Williamson synthesis

- عملية تكون الأثير من المقاتل.

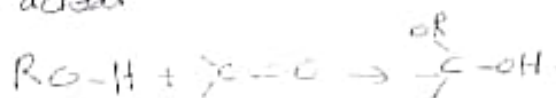
e) Acetal and Hemiacetal



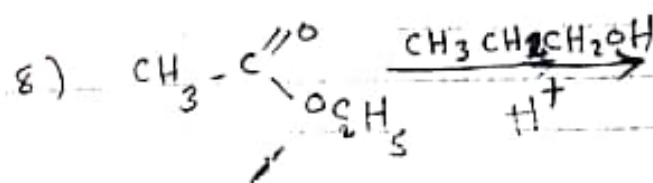
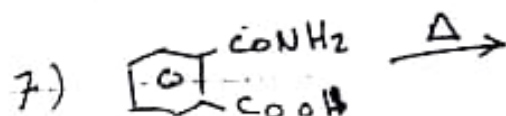
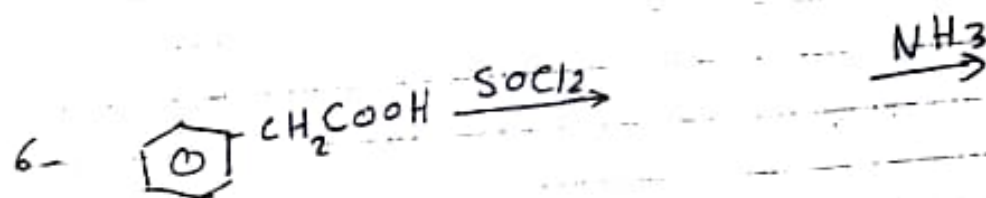
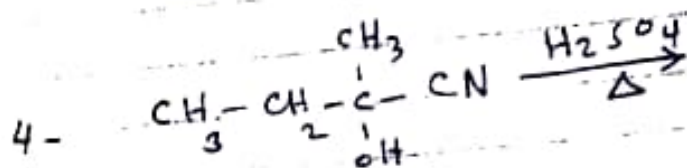
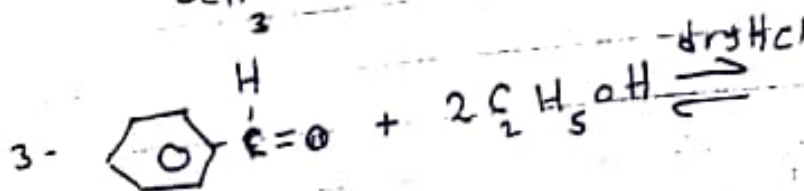
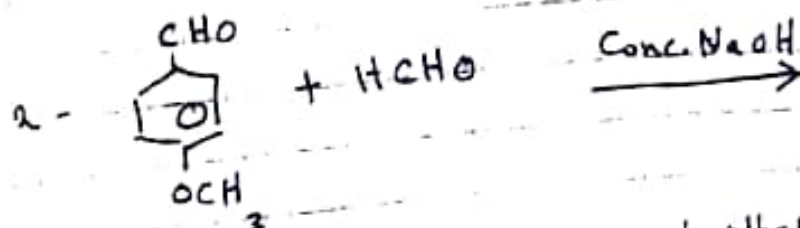
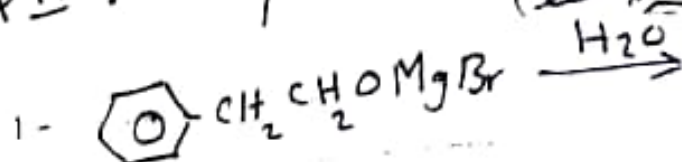
أنا أضف مجموعة $\text{R}-\text{OH}$ كل هيدروكسي بقطبي أستيل

جزء من الكحول على الألدريد قطبي استيرالية

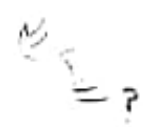
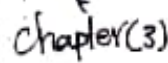
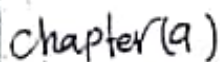
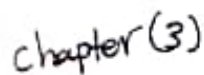
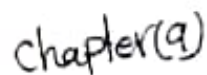
Hemiacetal



Q II : Complete the following reactions: - (16-18)



2015


$$b) \text{CH}_3\text{CH}_2\text{C}\equiv\text{CCH}_2\text{CH}_3 \xrightarrow[2) \text{ Lindlar Cat.}]{1) \text{ H}_2} \text{CH}_3\text{CH}_2\text{CH}=\text{CHCH}_2\text{CH}_3$$
~~$$O=C-C-C-C-C$$~~

Dr. Omar Khader Melad

فراس المينيراوي عندي نماذج يخو

م. لغة العربية بكالوريوس (٣٢٥ رسالة): +972 59-224-0547 ...

+972 59-752-4937 يسلمو

+972 59-961-3719 موجودين برابط اولي

عربي ثانية 🦷 (٩ رسائل): +972 59-480-4208 imgt...

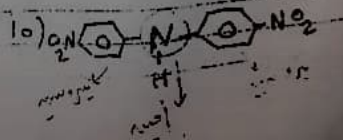
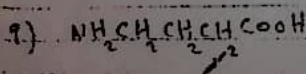
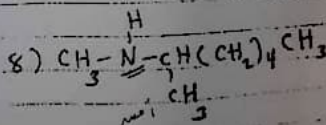
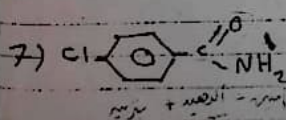
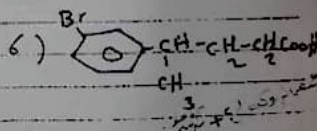
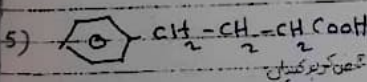
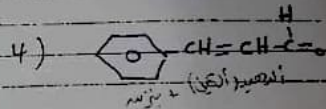
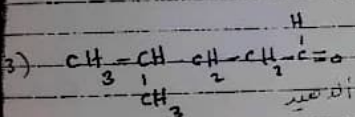
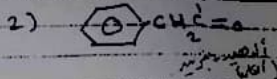
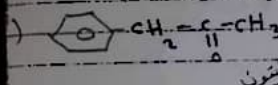
Umm Al-Qadim
Azhar Univ. of Gaza
Faculty of Science
Chem. dept.

Organic Chem III
Final Exam
Fall Semester
January 2010

الاسم
Answer the following questions

Give the IUPAC names for:

(أكتب عن ثمانية فقط)



Majd Ghaben

٢٠١٩/١٢/١٤

تعليق

أعجبني

Discuss briefly the following (give an example if any-) (10pts)

كيف تسمى لتكوين الكتان

a) Grignard reagent

في عدد آخر بالصورة مثل هذا

b) Racemic modification

موجود في نفس الوقت في الخليط

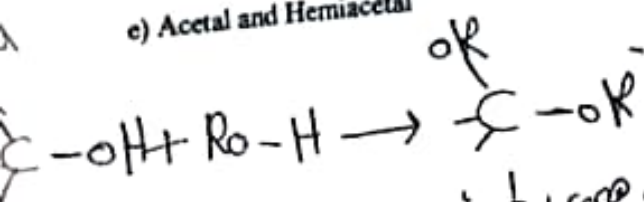
c) Cross Aldol condensation

من شريطة أن يكونا من نوعين مختلفين

d) Williamson synthesis →

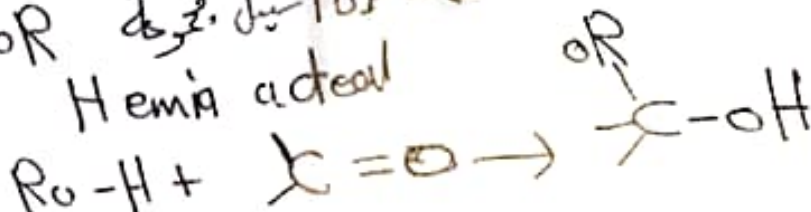
في عملية تكوين الإثير

e) Acetal and Hemiacetal



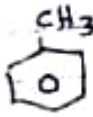
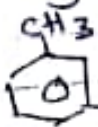
كانا اثنين مجموعتين R-OH

Hemiacetal



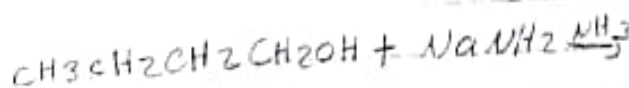
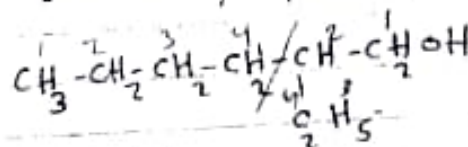
Q III : a) Starting from $\text{CH}_3\text{COCH}_2\text{COOC}_2\text{H}_5$ (10-Marks)

how would you prepare $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}-\text{C}(=\text{O})\text{CH}_3$

chapter (4) b) Starting from  how would you prepare  

c) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2\text{OH}$ to prepare

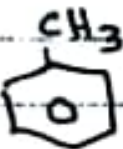


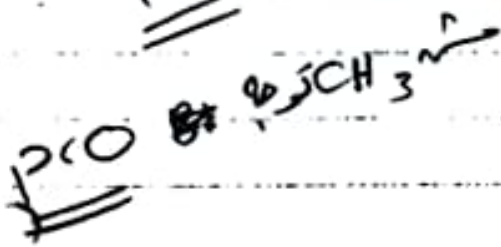
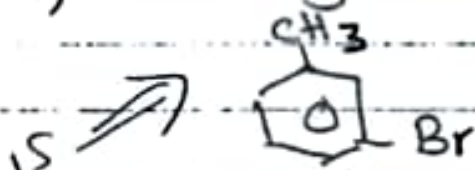
what

(عربي) (10-Marks)

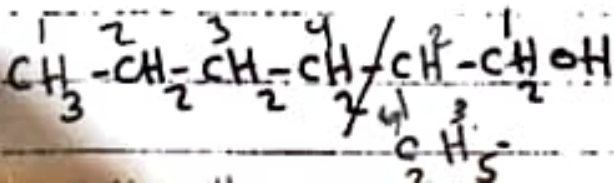
Q III : a) Starting from $\text{CH}_3\text{COCH}_2\text{COOC}_2\text{H}_5$

how would you prepare $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}-\text{C}(=\text{O})\text{CH}_3$

chapter (4) b) Starting from  how would you prepare



c) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2\text{OH}$ to prepare



what



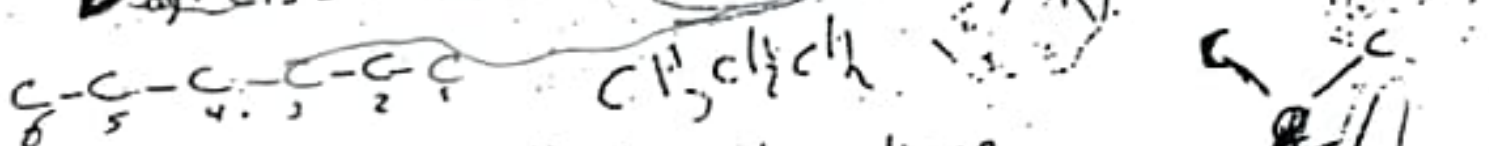
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20.1.2002

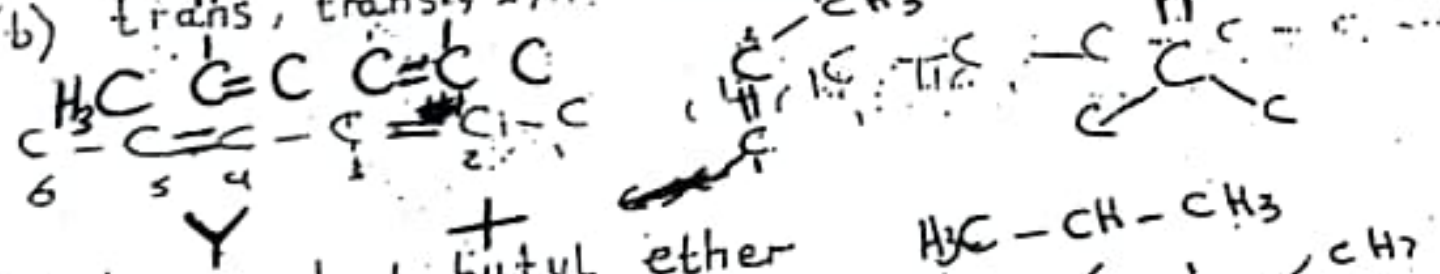
Name:

Draw the structure of the following: (10pt)

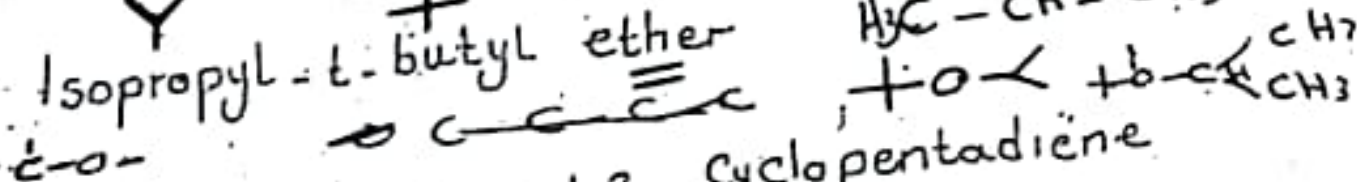
a) Cis-1-chloro-3-(1-methylethyl)cyclohexane



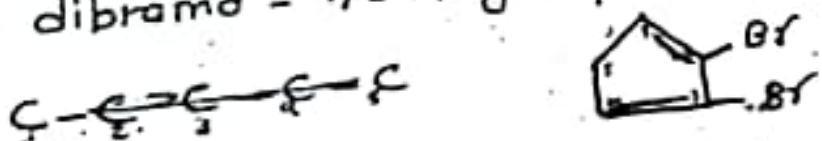
b) trans, trans 2,4-hexadiene



c) Isopropyl-t-butyl ether



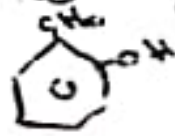
d) 2,3-dibromo-1,3-cyclopentadiene



e) Furan



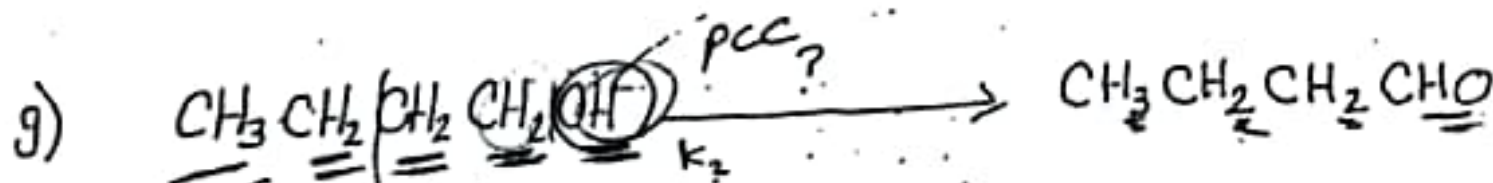
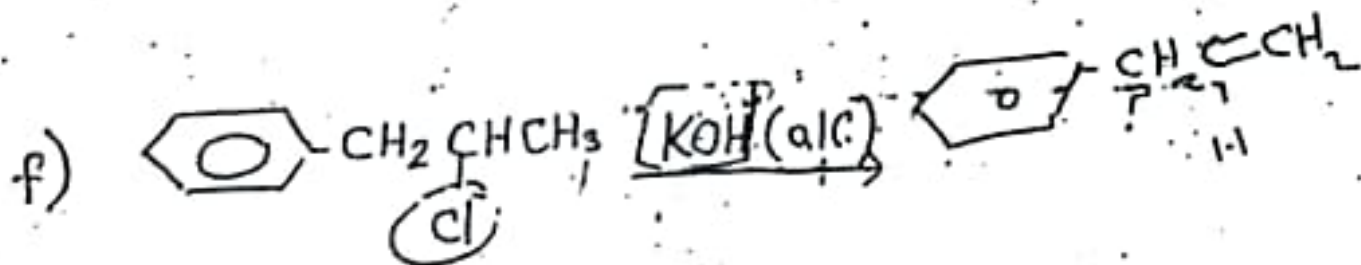
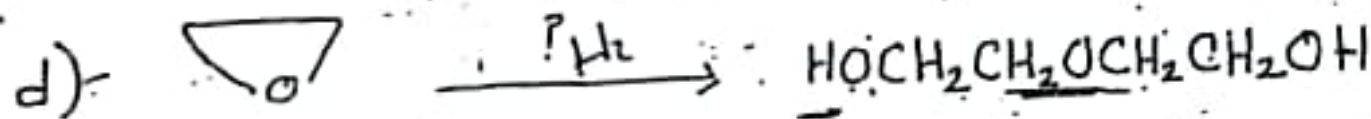
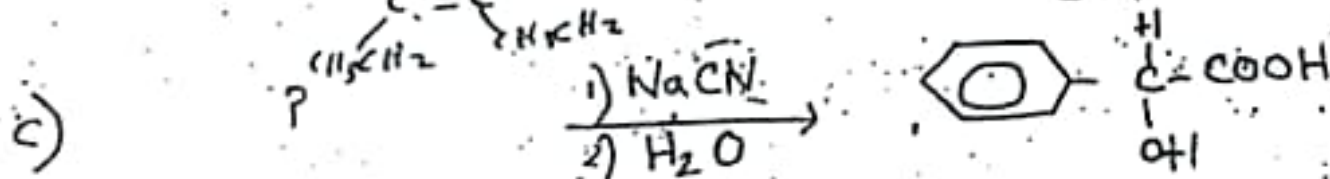
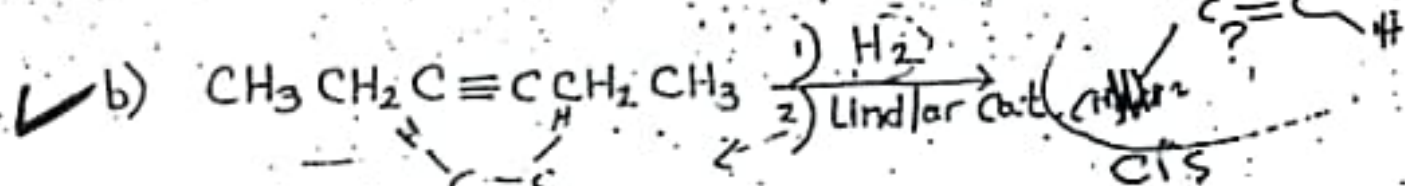
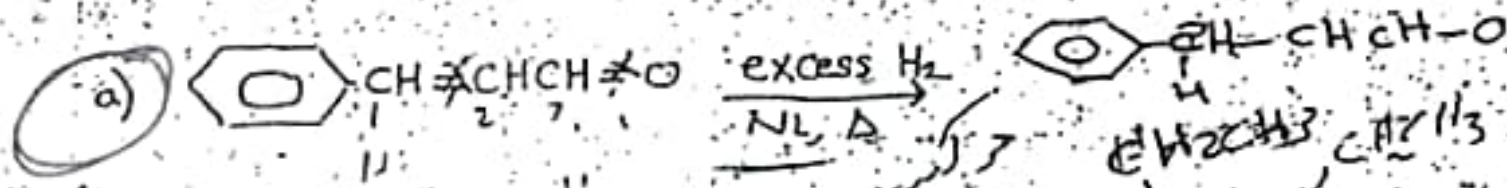
f) Salicylaldehyde



حل المسألة

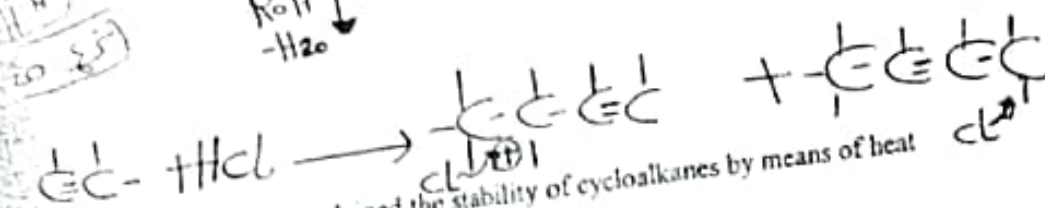
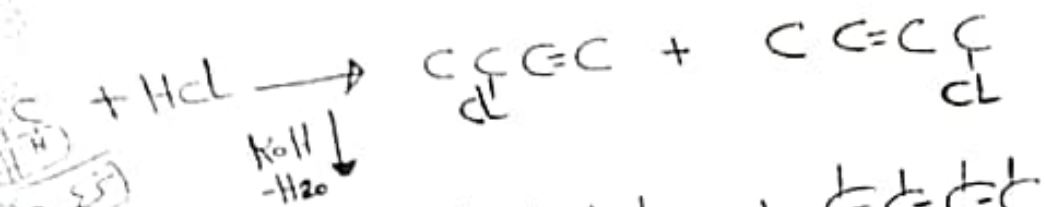
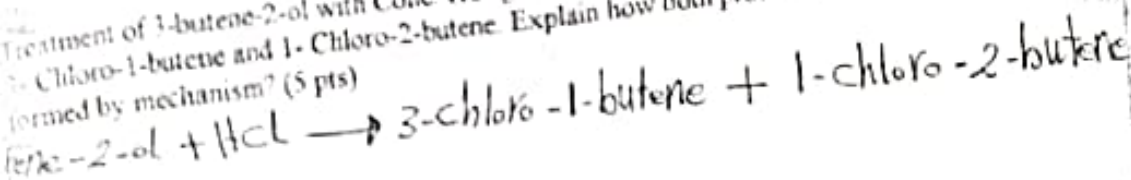
سأحلها

8) Complete the following equations: (opt)



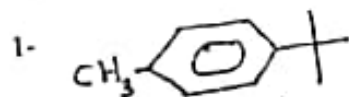
الكحول

Treatment of 3-butene-2-ol with Conc. HCl gives a mixture of two products, 3-chloro-1-butene and 1-chloro-2-butene. Explain how both products are formed by mechanism? (5 pts)

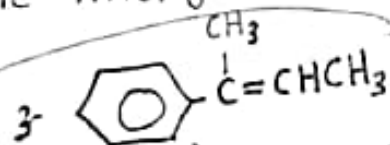
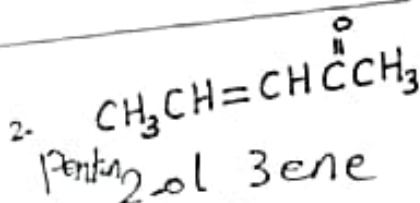


b) Baeyer Strain theory explained the stability of cycloalkanes by means of heat of combustion. Explain? (5 pts)

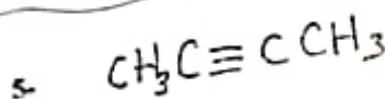
5. Name the following compounds: (10pts)



toluene methyl benzene



2-butene toluene



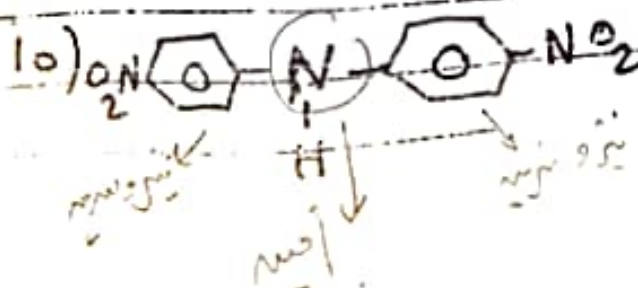
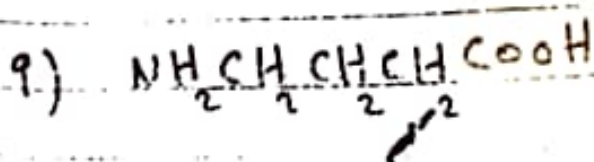
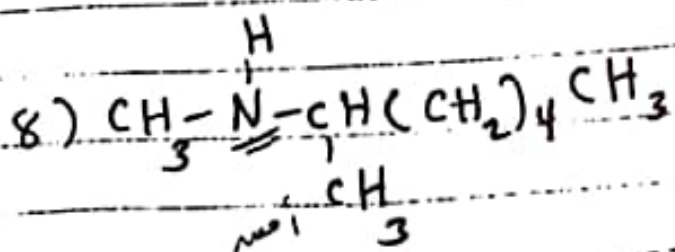
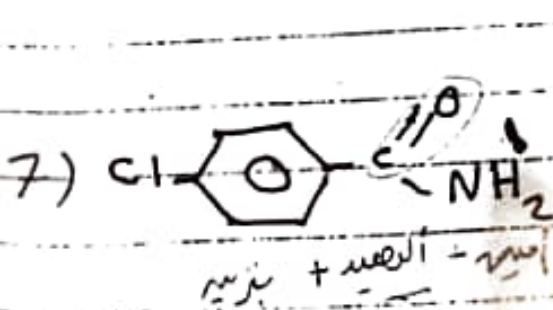
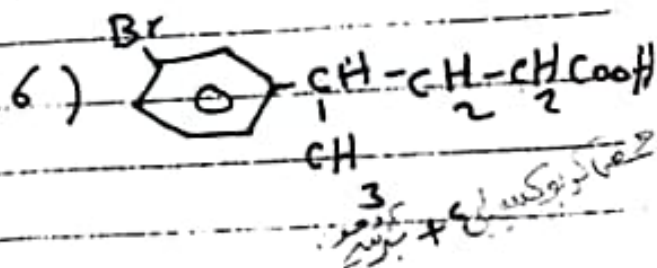
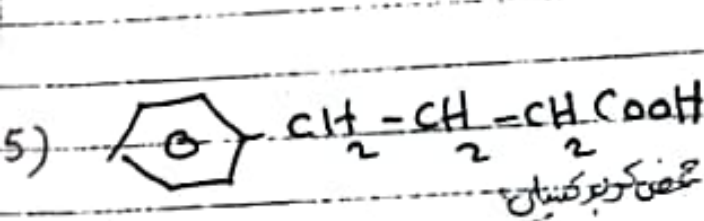
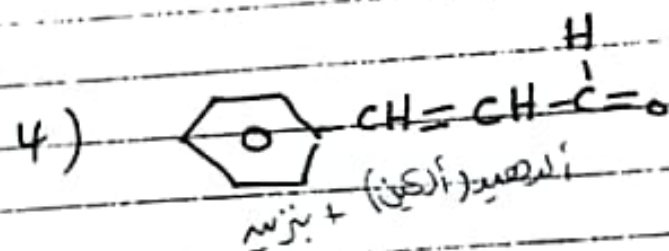
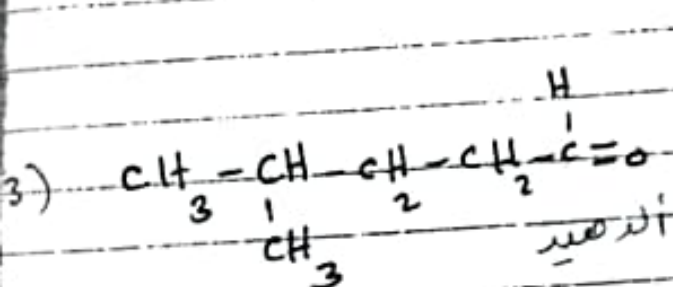
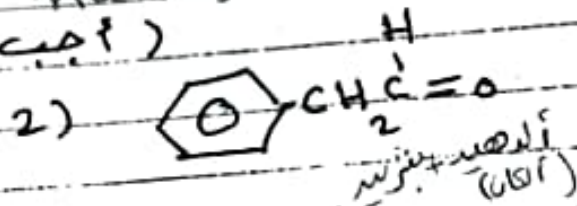
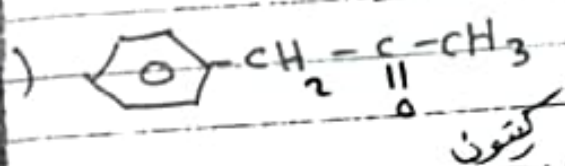
butan-2-yne

1-phenyl-1-methyl-prop-1-ene

Answer the following questions

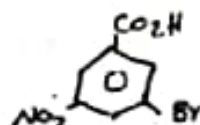
Give the IUPAC names for :-

(أجب عن ثمانية فقط)

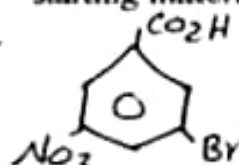


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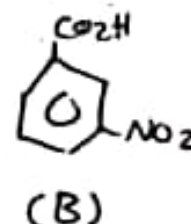
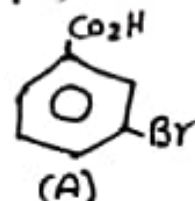
Answer the following questions:



a) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material: 3-bromobenzoic acid or 3-nitro-benzoic acid? (5pts)



المركب النهائي



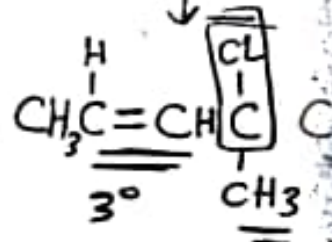
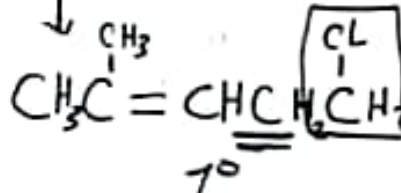
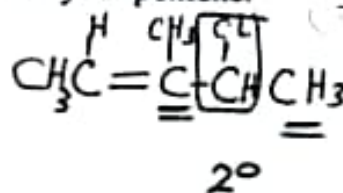
* لوبدأنا في المركب A عند إضافة NO₂ فإنها ستكون مركب P مع Br في الموضع المطلوب.

* لوبدأنا في المركب B عند إضافة Br فإنها ستكون مركب (m) مع NO₂ في الموضع المطلوب.

b) Arrange toward S_N1 reaction: (3pts)

chapter 6

4-Chloro-3-methyl-2-pentene, 5-Chloro-2-methyl-2-pentene, 4-Chloro-4-methyl-2-pentene.



S_N1 Prefer reaction that 3° > 2° > 1° > CH₃-

the correct arrange 4-chloro-4-methyl-2-pentene > 4-chloro-3-methyl-2-pentene > 5-chloro-2-methyl-2-pentene

c) Arrange the following in order of reactivity toward ring bromination: (2pts)

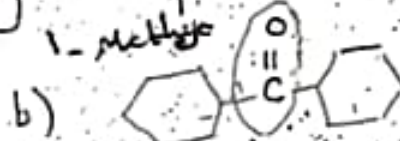
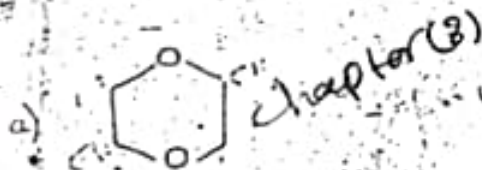
P-Chloronitrobenzene, 2,4-dichloronitrobenzene, Nitrobenzene.

chapter 4

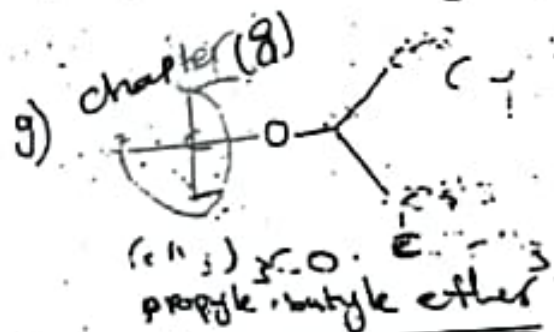
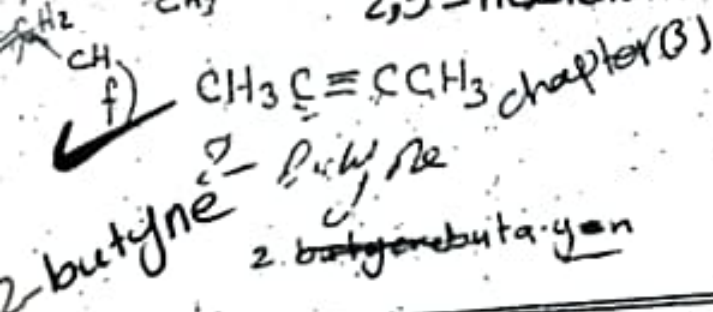
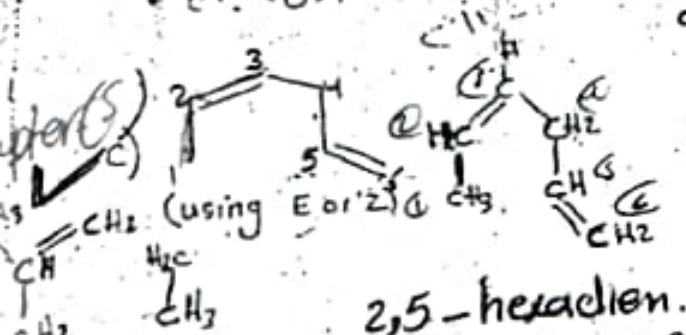
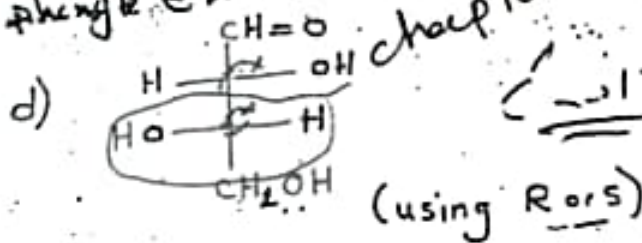
Name the following

Compounds: (10 pt.)

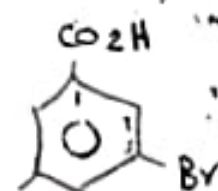
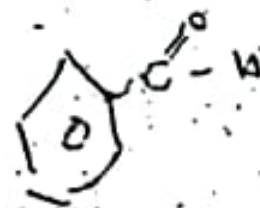
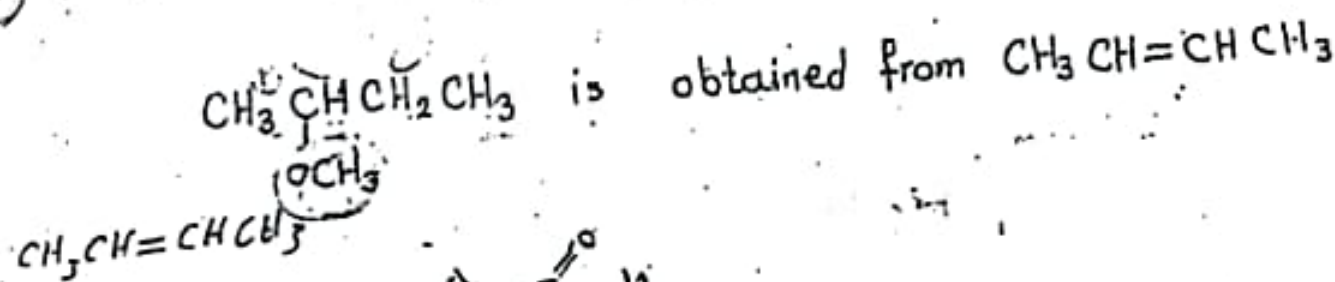
Chapter (9)
benzophenone



diphenyl ether



a) Show the mechanism that occur when: (5 pt.)



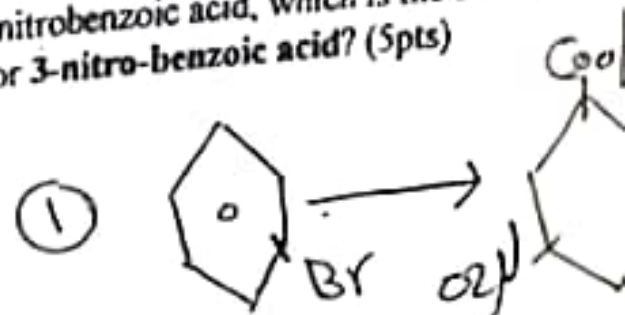
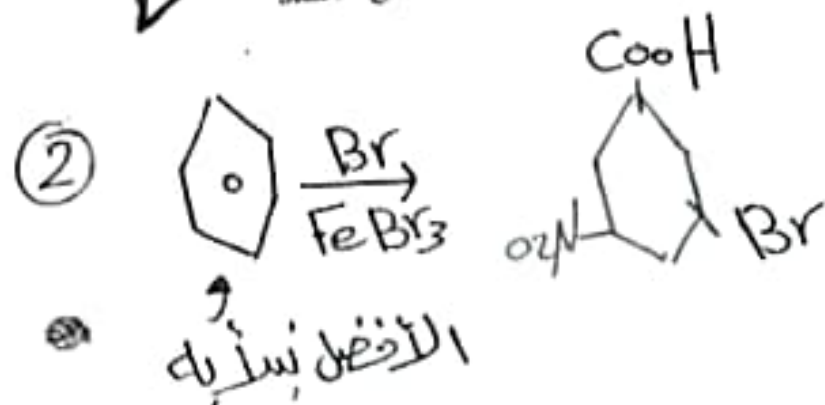
No 2

b) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material, 3-bromobenzoic acid or 3-nitrobenzoic acid? wh

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Answer the following questions:

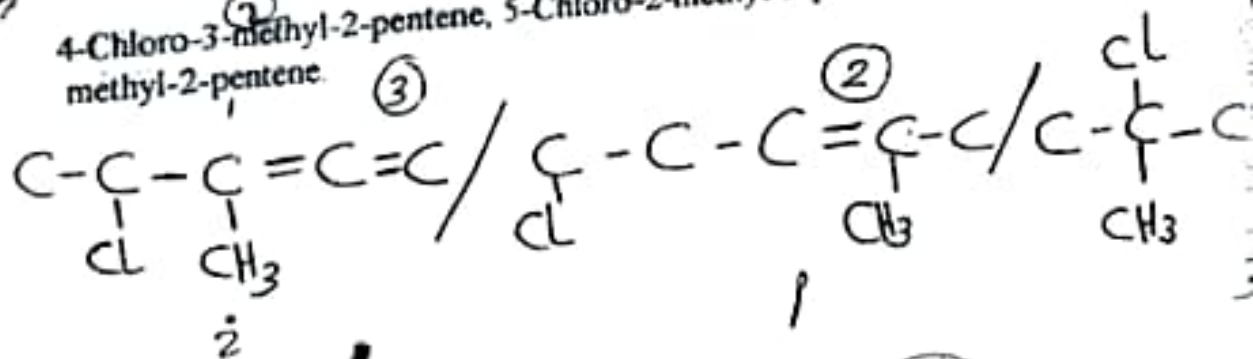
- 1) a) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material: 3-bromobenzoic acid or 3-nitro-benzoic acid? (5pts)



- b) Arrange toward S_N1 reaction: (3pts)

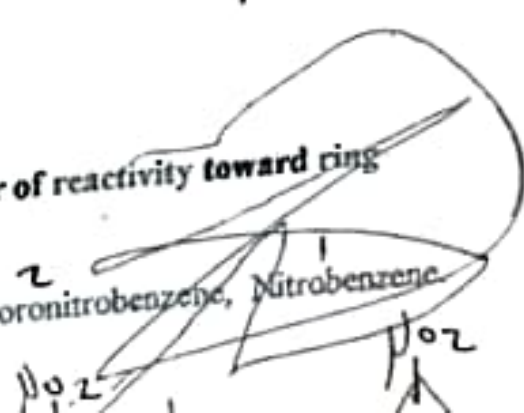
4-Chloro-3-methyl-2-pentene, 5-Chloro-2-methyl-2-pentene, 4-Chloro-4-methyl-2-pentene.

S_N1
3 2 1



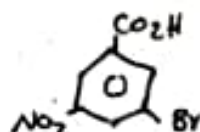
- c) Arrange the following in order of reactivity toward ring bromination: (2pts)

P-Chloronitrobenzene, 2,4-dichloronitrobenzene, Nitrobenzene.

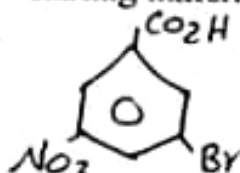


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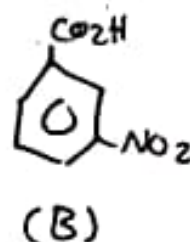
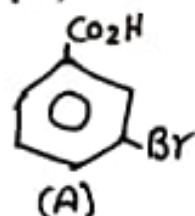
Answer the following questions:



a) For a one step synthesis of 3-bromo-5-nitrobenzoic acid, which is the better starting material: 3-bromobenzoic acid or 3-nitrobenzoic acid? (5pts)



المركب النهائي



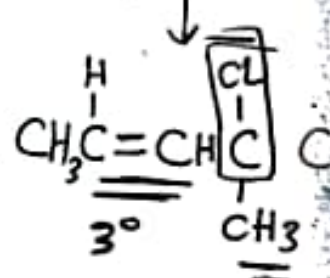
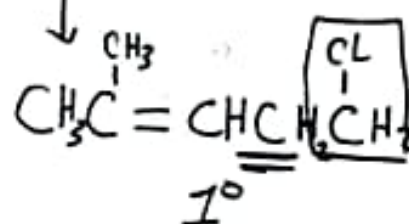
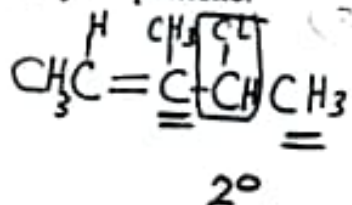
* لوبدأنا في المركب A عند إضافة NO₂ فإنها ستكون مركب P مع Br في النهاية المجمعة المنشقة ، فمستحيل تكون المركب النهائي المطلوب .

* لوبدأنا في المركب B عند إضافة Br فإنها ستكون مركب (m) مع NO₂ في النهاية المنشقة ، فنكون المركب النهائي المطلوب .

b) Arrange toward S_N1 reaction: (3pts)

chapter 6

4-Chloro-3-methyl-2-pentene, 5-Chloro-2-methyl-2-pentene, 4-Chloro-4-methyl-2-pentene.



S_N1 Prefer reaction that 3° > 2° > 1° > CH₃-

the correct arrange 4-chloro-4-methyl-2-pentene > 4-chloro-3-methyl-2-pentene > 5-chloro-2-methyl-2-pentene

c) Arrange the following in order of reactivity toward ring bromination: (2pts)

P-Chloronitrobenzene, 2,4-dichloronitrobenzene, Nitrobenzene

chapter 4

- 0 -

Q IV: Write short notes on the following: (8-Marks)
(لکھنی ۸ مرکب)

1- Wittig reaction.

2- Sandmeyer reaction.

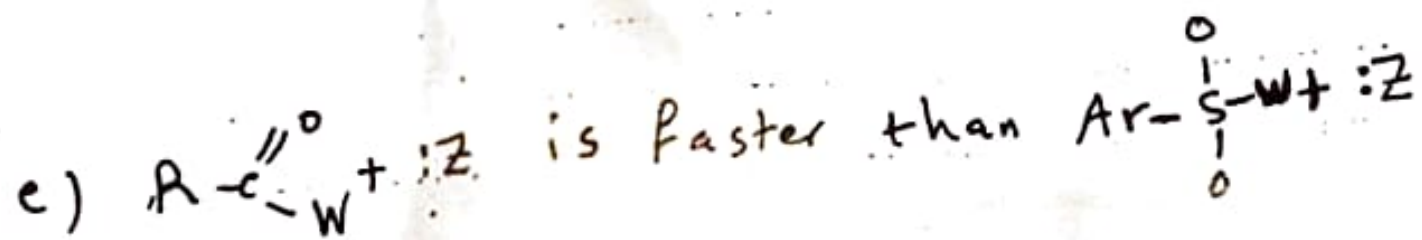
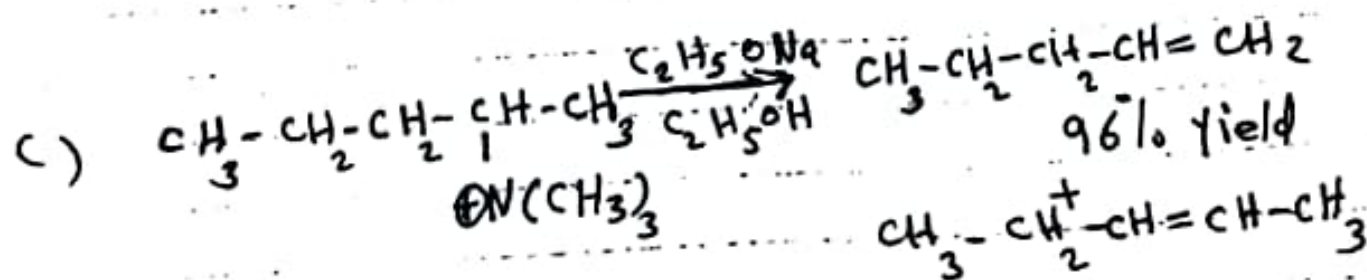
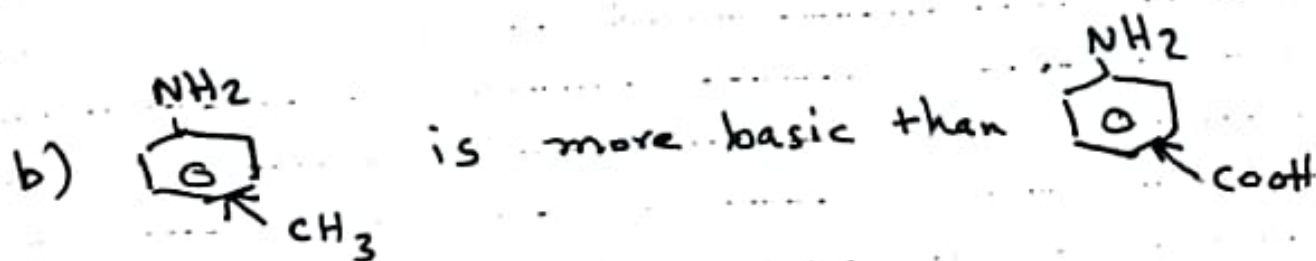
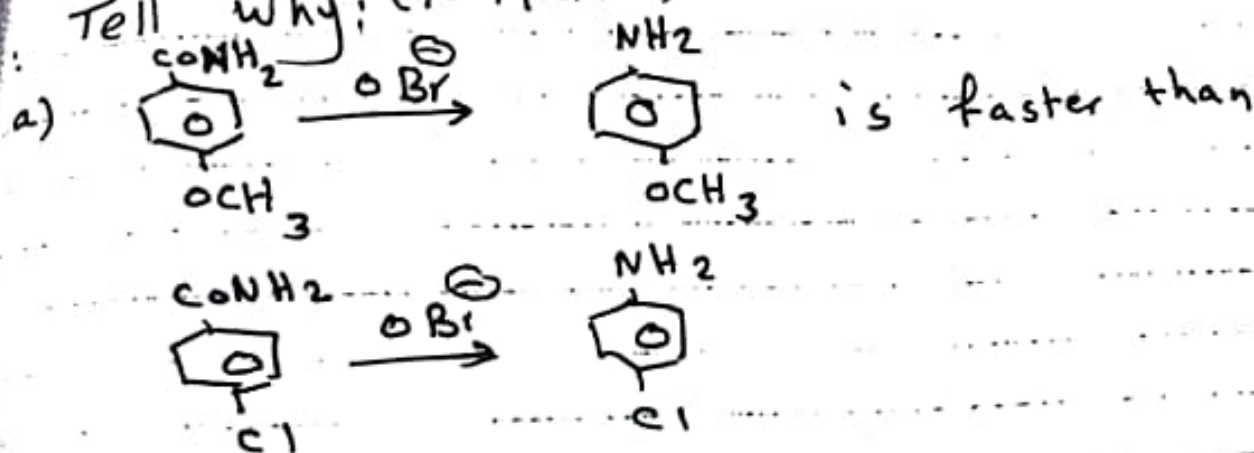
3- Quaternary ammonium salts.

4- Malonic ester synthesis.

5- Anchimeric assistance.

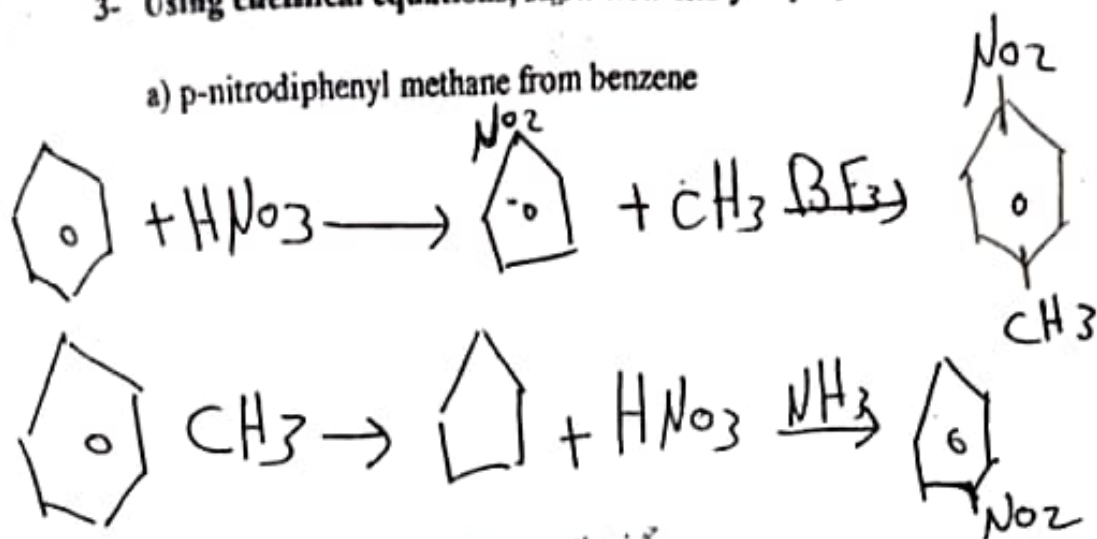
6- Claisen condensation

Tell why: (9-Marks)



3- Using chemical equations, show how can you prepare: (10pts)

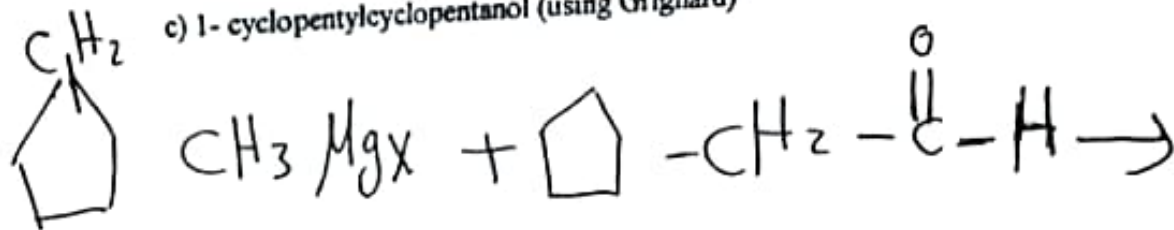
a) p-nitrodiphenyl methane from benzene



b) $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_3$ (Ester synthesis)

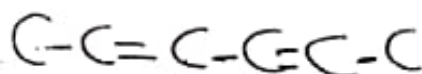


c) 1-cyclopentylcyclopentanol (using Grignard)



4- a) Draw the structure of the following: (10pts)

1- 2,4-hexadiene

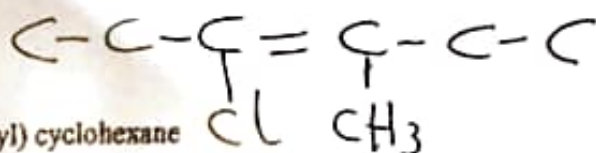


2- Phenyl hydrazine $\Rightarrow \text{NH}-\text{NH}-\text{C}_6\text{H}_5$

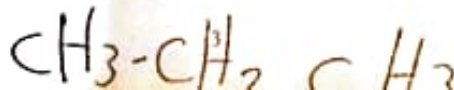
3- Naphthalene



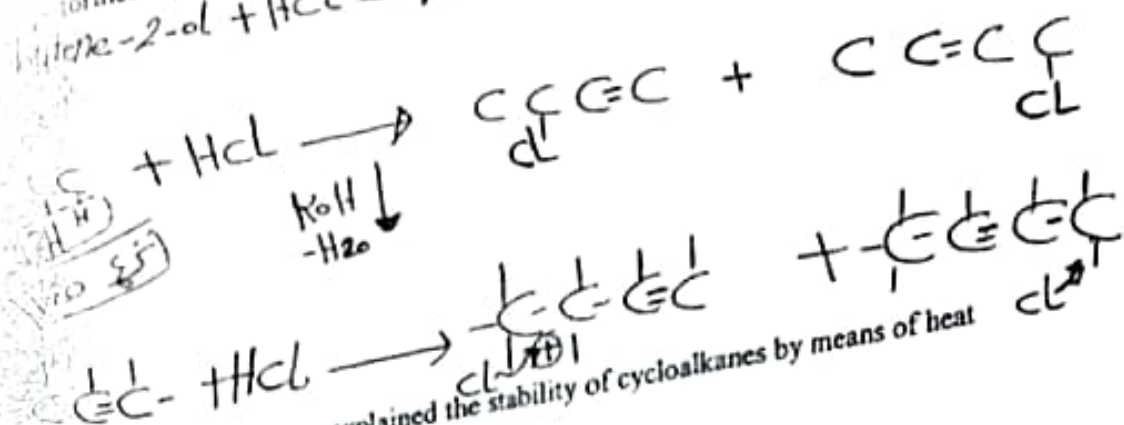
4- (E)-3 Chloro-4-methyl 3-hexene



5- Cis-1-chloro-3 (1-methylethyl) cyclohexane



2. Treatment of 3-butene-2-ol with Conc. HCl gives a mixture of two products, Chloro-1-butene and 1-Chloro-2-butene. Explain how both products are formed by mechanism? (5 pts)

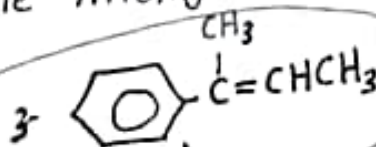
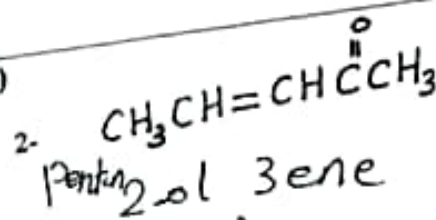


b) Baeyer Strain theory explained the stability of cycloalkanes by means of heat of combustion. Explain? (5 pts)

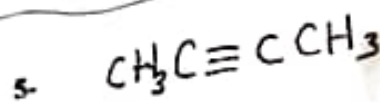
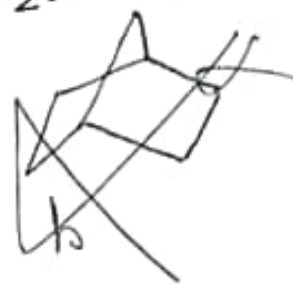
5. Name the following compounds: (10pts)



Toluene methyl benzene

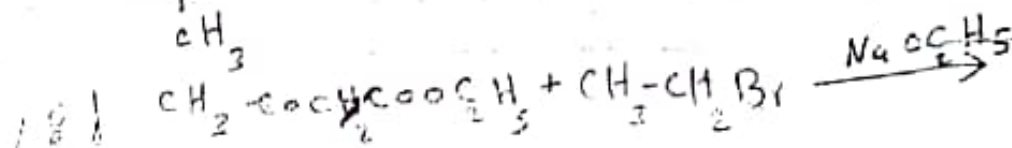
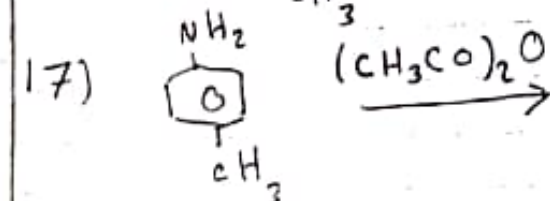
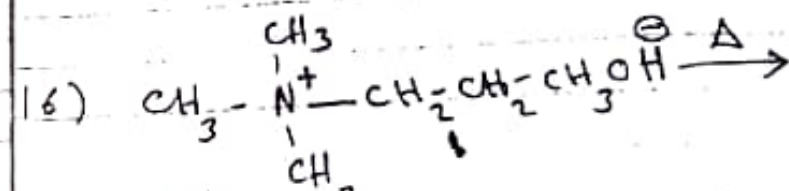
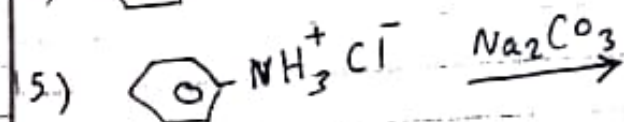
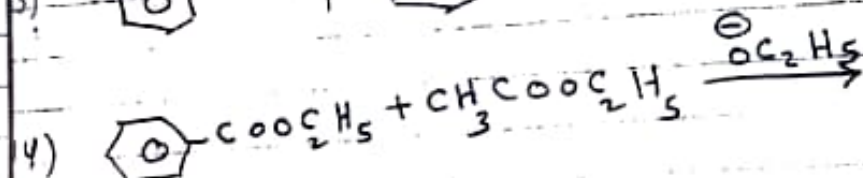
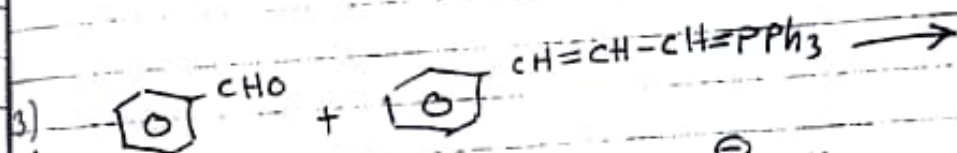
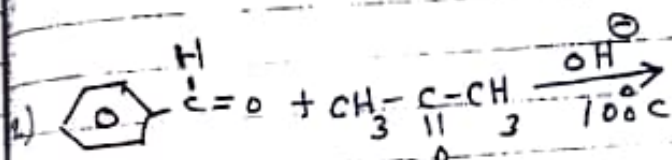
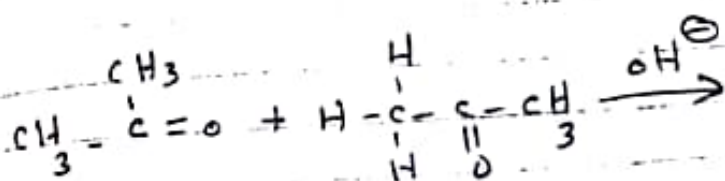
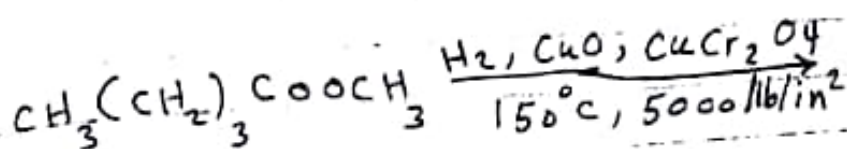
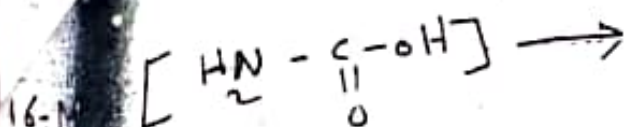


2-butene toluene



butan-2-yne

1-phenyl-1-methyl-propene



Aldol[~] Condensation.

Transesterification.

1) Hell - Volhard - Zelinsky

2) Acidity constant of Carboxylic acids

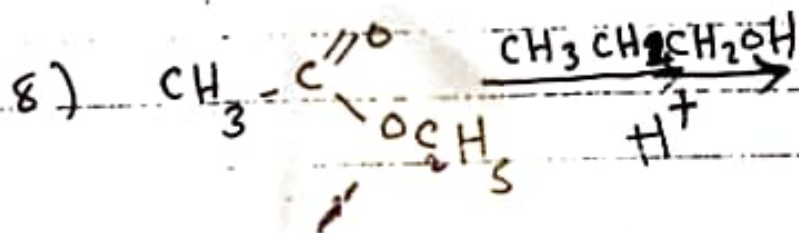
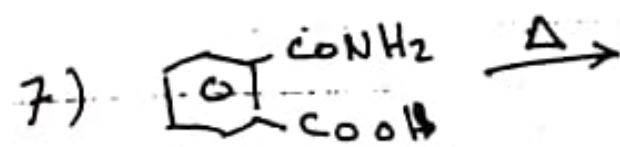
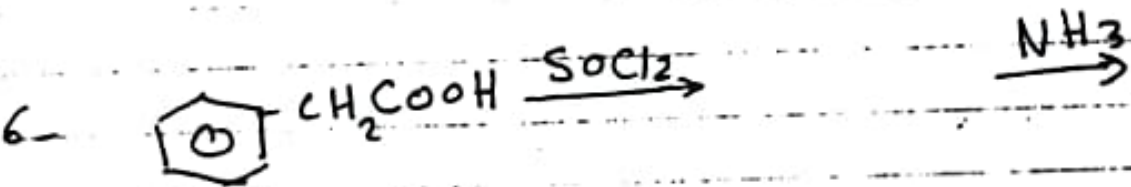
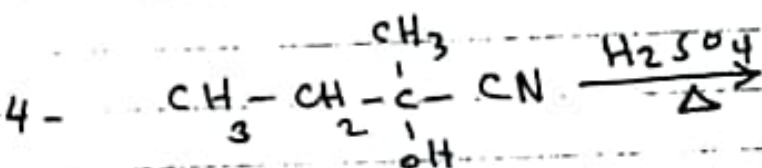
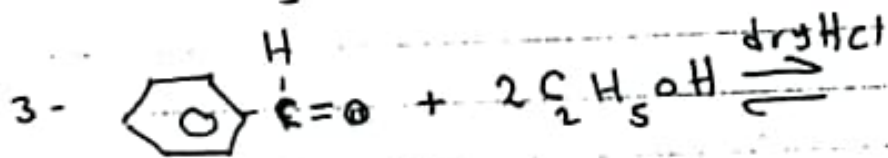
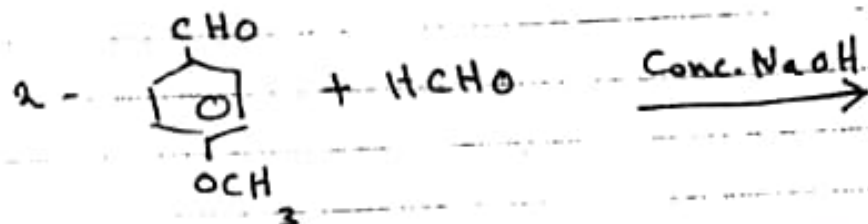
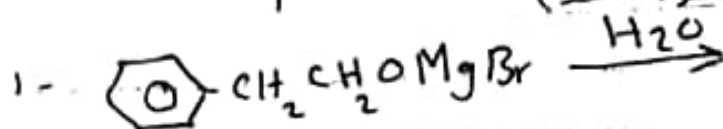
-5-

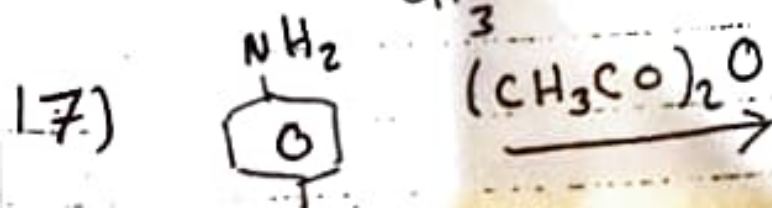
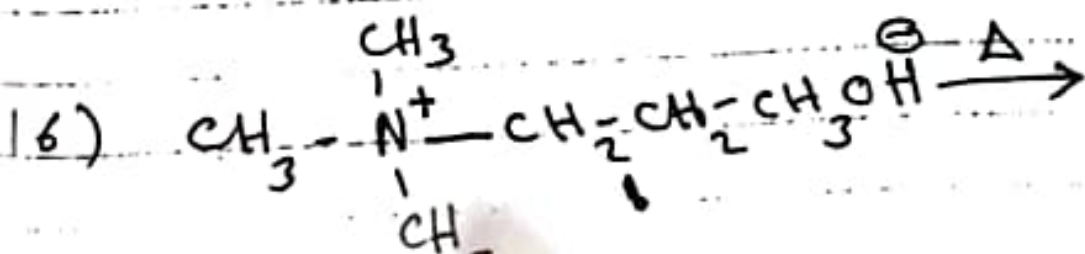
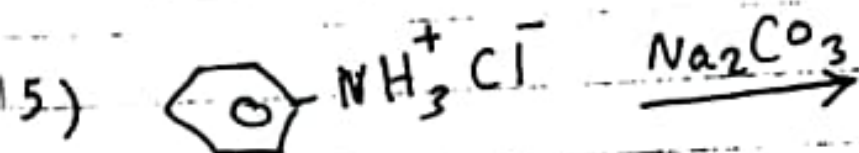
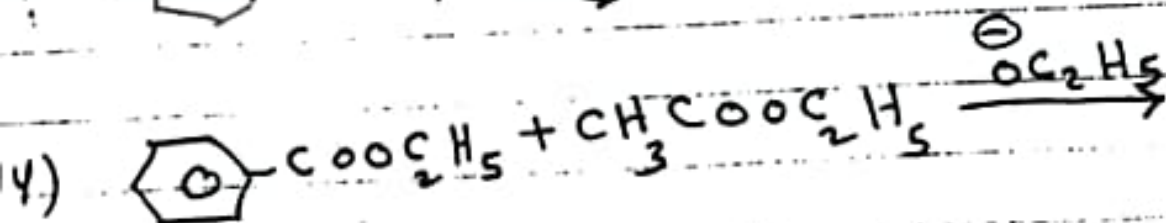
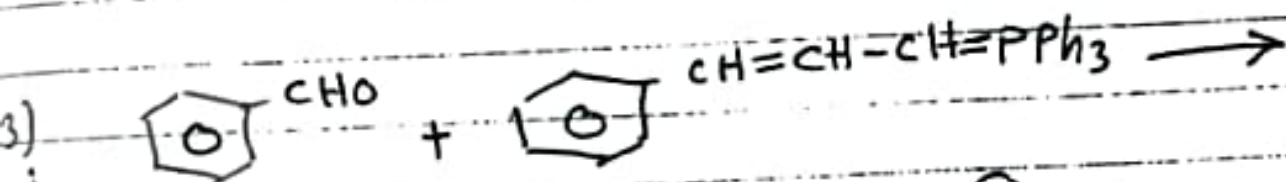
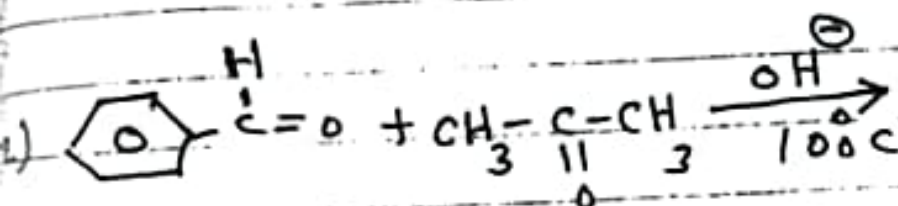
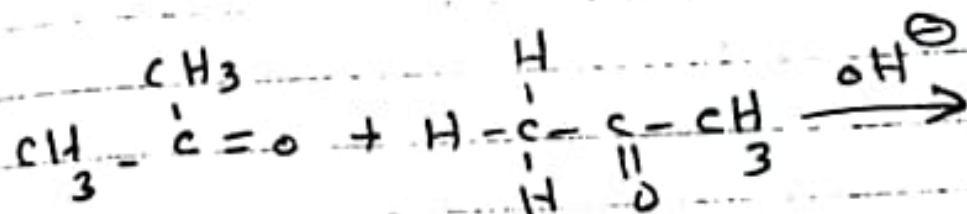
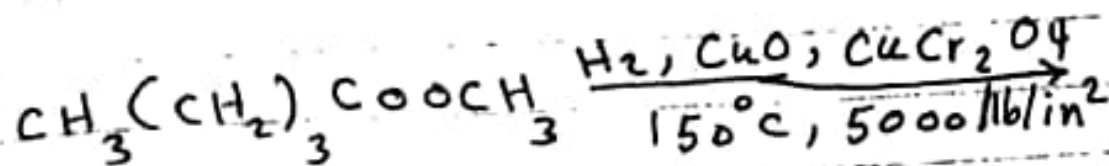
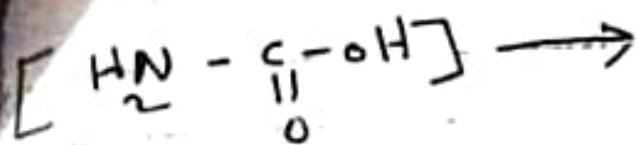
$\text{CH}_3\text{-COOH}$ to prepare $\begin{array}{c} \text{COOC}_2\text{H}_5 \\ | \\ \text{CH}_2 \\ | \\ \text{COOC}_2\text{H}_5 \end{array}$

Starting from $\text{C}_6\text{H}_5\text{-CH}_3$ and alcohol to
prepare $\text{C}_6\text{H}_5\text{-CH}_2\text{-CH(OH)-CH(CH}_3\text{)-CH}_3$

1) C_6H_6 to prepare $\text{O}_2\text{N-C}_6\text{H}_4\text{-C(=O)-C}_6\text{H}_5$

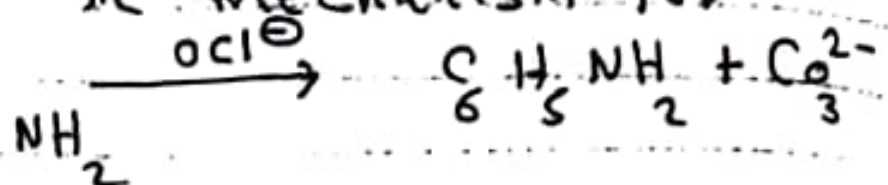
Q II : Complete the following reactions: - (16-Marks)



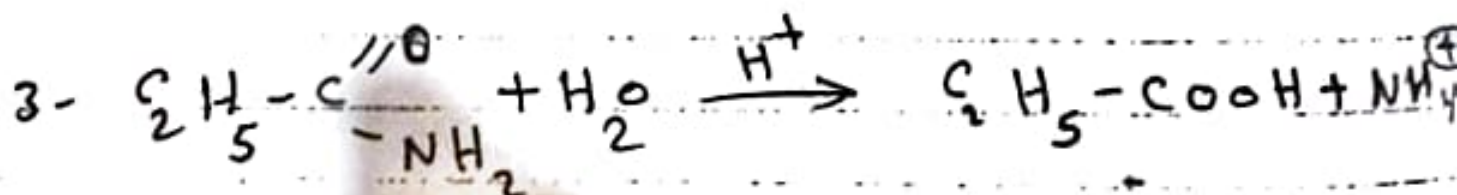
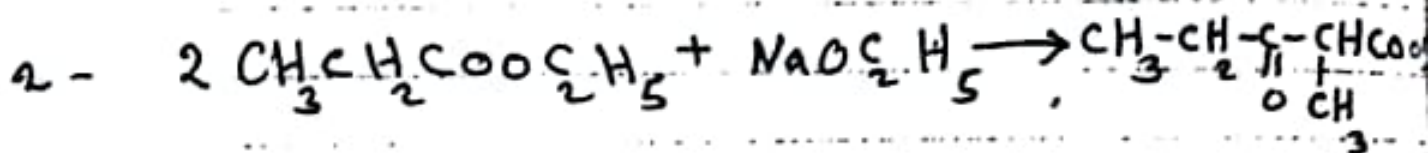


Q IV: Write

the mechanism for (9-Mark)



Q V: Write



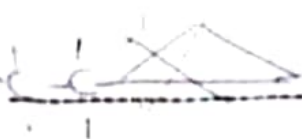
Answer the following questions:

1- Complete the following statements: (8pts.)

a) In the chlorination of Benzene, FeCl_3 is added as catalyst to: ~~help~~

~~breaking the double bond because of the high electron density~~

b) The structure of acetophenone is:



c) Heterocyclic form of $\text{C}_4\text{H}_8\text{O}$ is:



d) Cycloaddition of



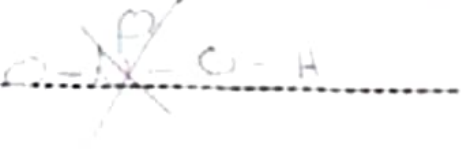
+ $\text{CH}_2 = \text{CH} - \text{CN}$ produces ---



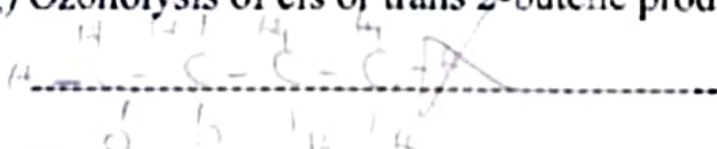
e) The bond line formula of $(\text{CH}_3\text{CH}_2)_2\text{N}$ is



f) Lewis structure of HNO_3 is:



g) Ozonolysis of cis or trans 2-butene produces only



h) CH_3OH is insoluble in octane due to

~~the hydrogen bonding~~

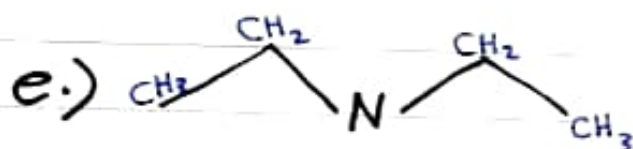
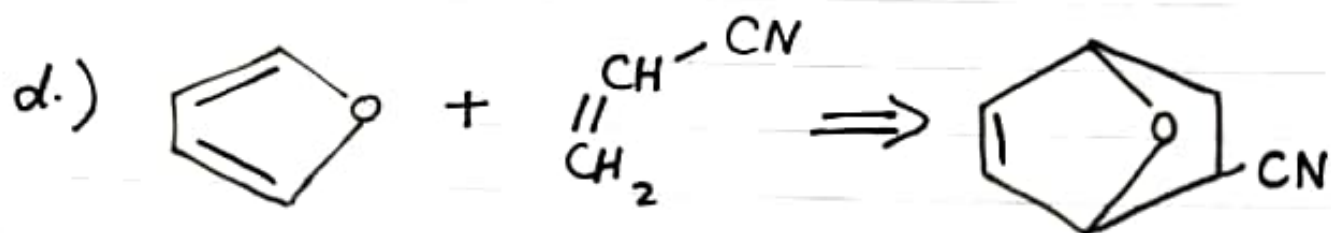
Q: (1)

Raghad Al-Rouba

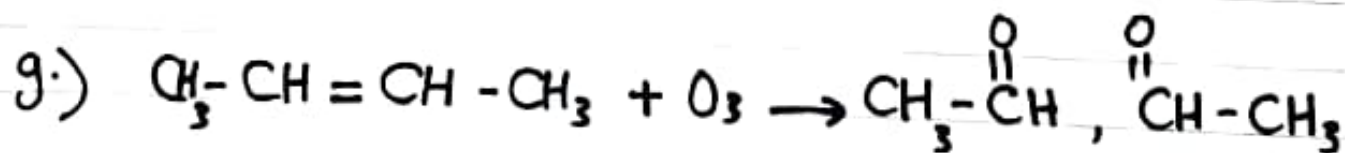
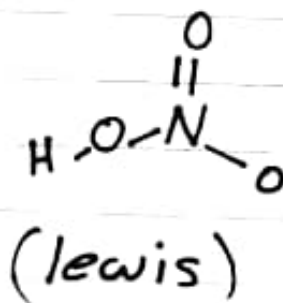
a.) عش معنا

b.) عش معنا

c.) heterocyclic (حلقة غير متجانسة) $\Rightarrow$

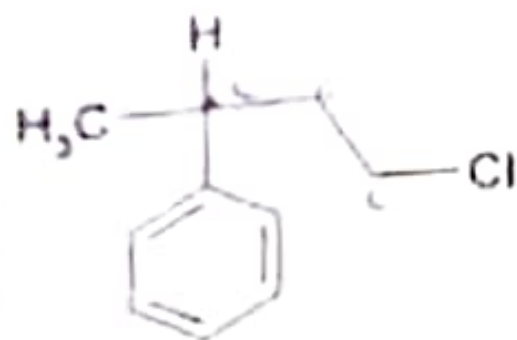


f.) $1 + 5 + 3 \times 6 = 24$
 $2 \times 1 + 8 \times 4 = 34$
 $34 - 24 = 10$
 $10 \div 2 = 5 \text{ bonds}$



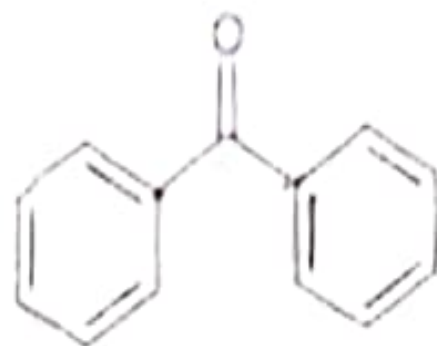
h.) Because methanol is a polar compound while Octan isn't Polar. (like dissolve like).

3- a) Name and /or draw the structures of the following compounds:

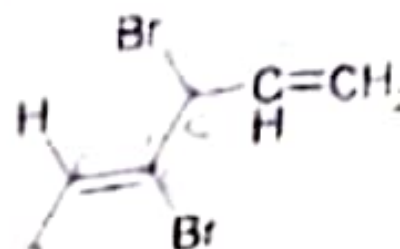


(S)-3-chlorobutane

p-nitroanisole



1,3-dibromocyclopentene



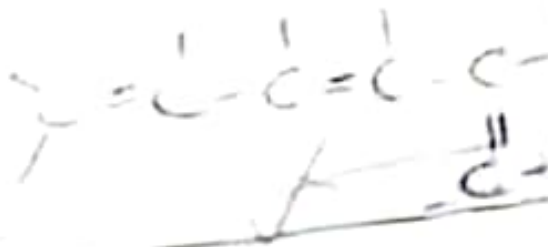
(E)-1,3-dibromocyclopentene

3-chlorobutane

(S)-3-methylcyclopentene

trans-1,3,5-hexatriene

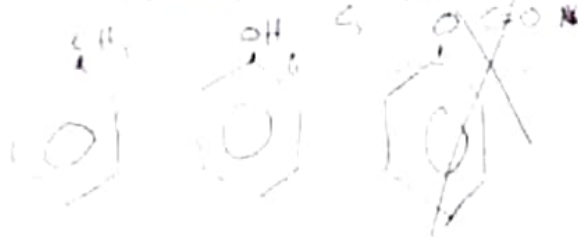
p-nitroanisole



b) Write all steps in the reaction mechanism of Nitration of p-xylene (catalyst) (2pts.)

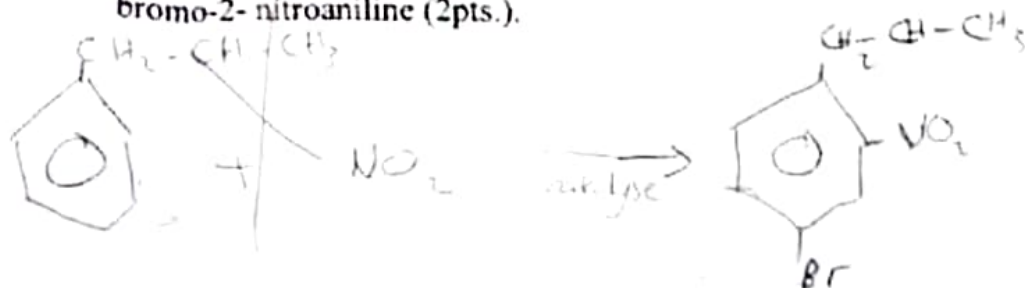
2- a) Draw and arrange the following in order of reactivity toward ring halogenation: (2pts.)

Phenol, Toluene, benzaldehyde



2.5

b) By chemical equations, Starting with Aniline, how can you prepare 4-bromo-2-nitroaniline (2pts.).



c) Draw the structure of: R,E,S-2,5-dichloro-3-hexene (2pts.).

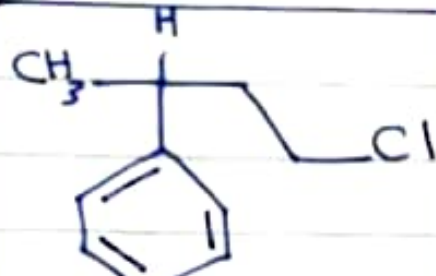
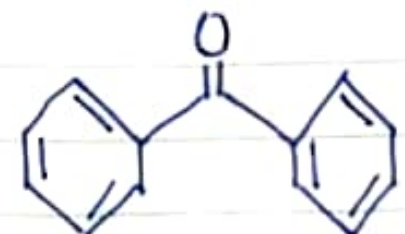
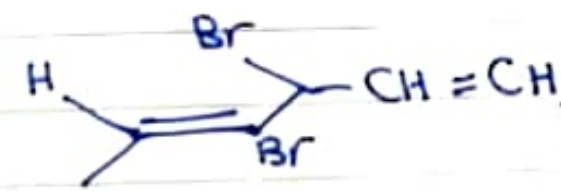
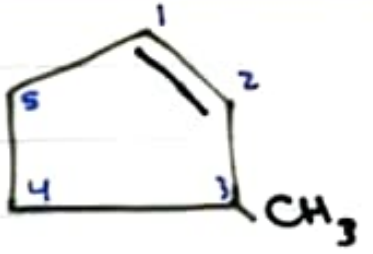
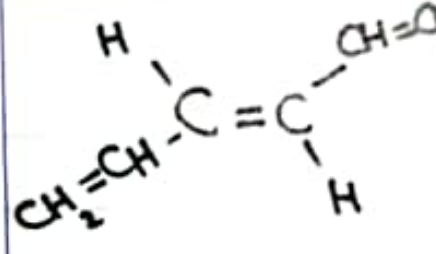


d) Arrange the following groups in order of decreasing priority to R-S configuration: (2pts.)

$-\text{OCH}_3$, $-\text{NHCH}_3$, $-\text{CH}_3\text{NH}_2$, $-\text{OH}$

① ③ ② ④

Q: (3)

		
مش معنا	مش معنا	$^6\text{CH}_3 - ^5\text{C} = ^4\underset{\text{Br}}{\text{C}} - ^3\underset{\text{Br}}{\text{CH}} - ^2\text{CH} = ^1\text{CH}_2$ 3,4 dibromo, 1,4 hexadiene
(S). 3 methyl cyclopentene	trans, 1,3,5 hexatriene	p-nitroanisol.
		مش معنا

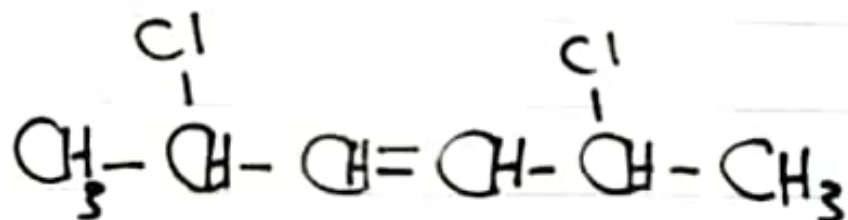
b.) مش معنا

Q: (2)

a.) مش معنا

b.) مش معنا

c.) بغض النظر عن R, E, S.



d.) مش معنا