

جامعة الملك سعود - كلية العلوم - قسم الكيمياء

الاختبار النهائي للفصل الثاني في مقرر ١٤٥ كيم (١٣-٨-١٤٣٦هـ) الزمن: ساعتان

رقم الطالب: ـ

اسم الطالب:-

الرقم التسلسلي: ـ

ملاحظة هامة: تصحيح الامتحان سيكون بناء على الإجابة المكتوبة في الجدول

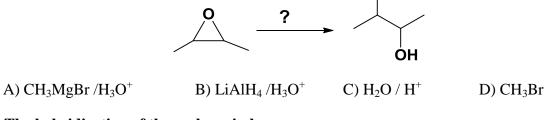
الإجابة	رقم السؤال	الإجابة	رقم السوّال
	21		1
	22		2
	23		3
	24		4
	25		5
	26		6
	27		7
	28		8
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	40		19 20
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1- Hydrolysis of PhMgBr gives

A) Phenol B) Benzyl bromide C) Bromobenzene D) Benzene

2- What is the <u>reagent</u> needed for the following transformation?



3- The hybridization of the carbons in benzene are



4- Which of the following structures is an aromatic?



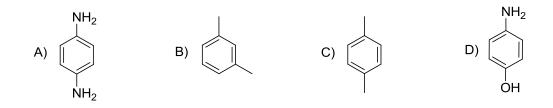
5- Chlorination of toluene in presence of light gives

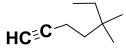
A) 1-ChlorotolueneB) 2-ChlorotolueneC) 1,4-DichlorotolueneD) Benzyl chloride

6- Which of the following groups is desactivating in electrophilic aromatic substitution reactions?

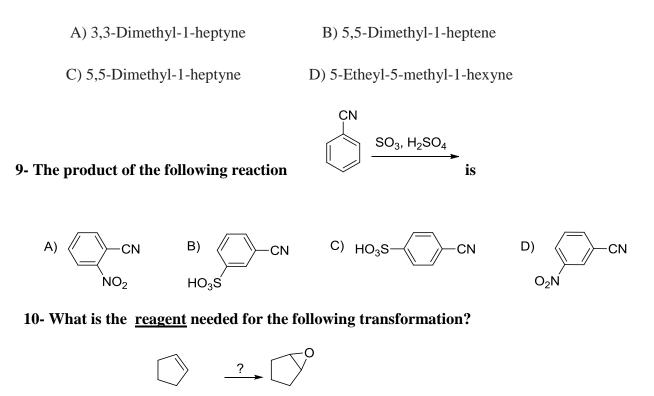
A) $-OCH_3$ B) $-NH_2$ C) -OH D) -COOH

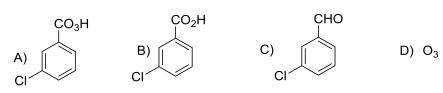
7-Which of the following compounds has the common name *p*-xylene?





8- What is the correct name for the following compound? $HC^{=C}$





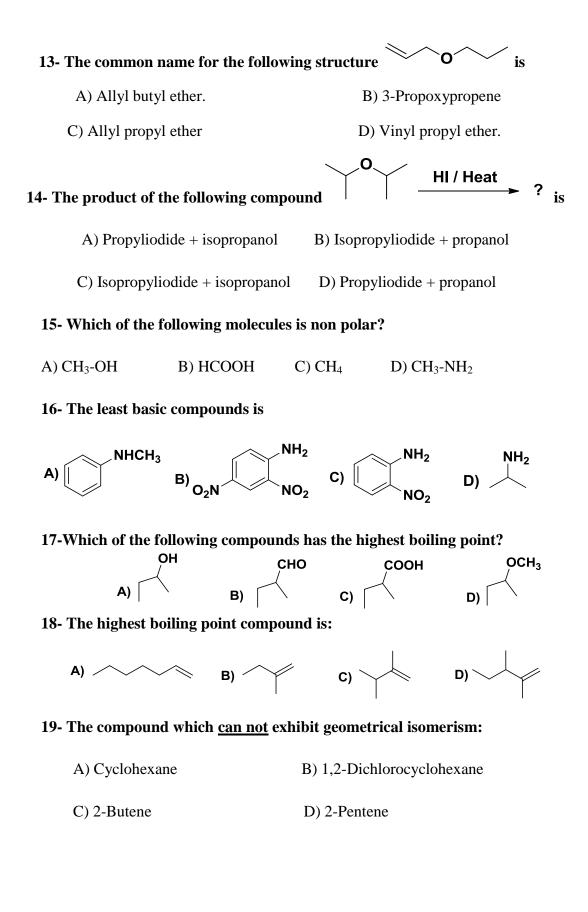
11- Which of the following compounds will react with water in presence of HgSO₄/H₂SO₄ to give an aldehyde?

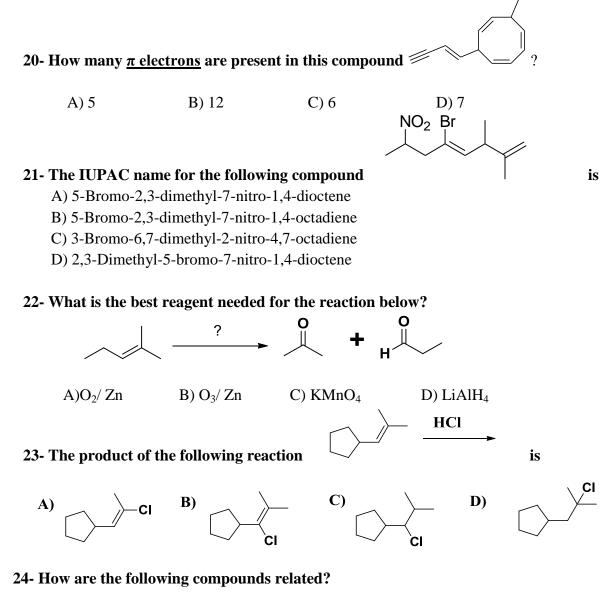
A) Acetylene	B) Propyne

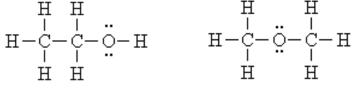
C) Ethene D) Propene

12- The reagent can be used for the transformation of isopropyl alcohol to isopropyl chloride is

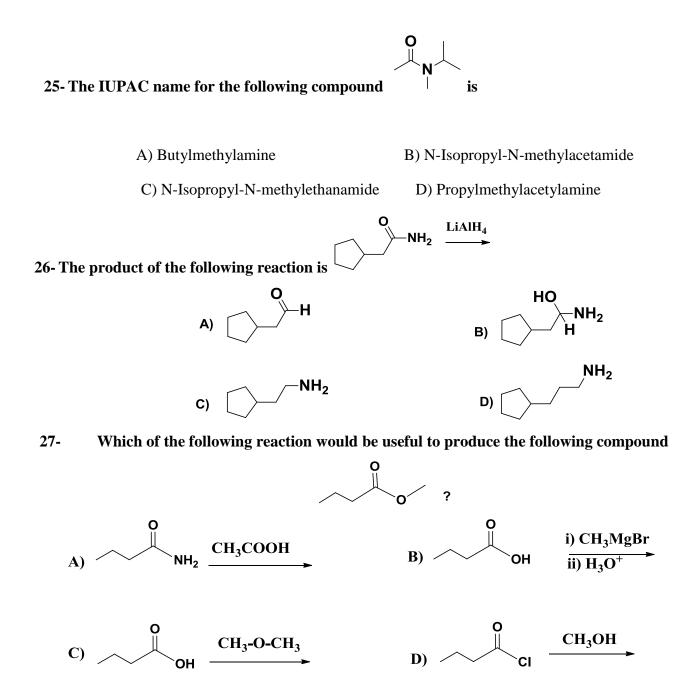
A) SOCl ₂	B) FeCl ₃
C) PhCH ₂ Cl	D) AlCl ₃



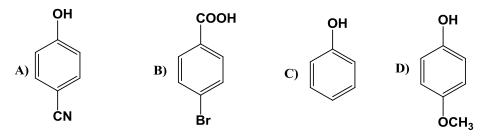


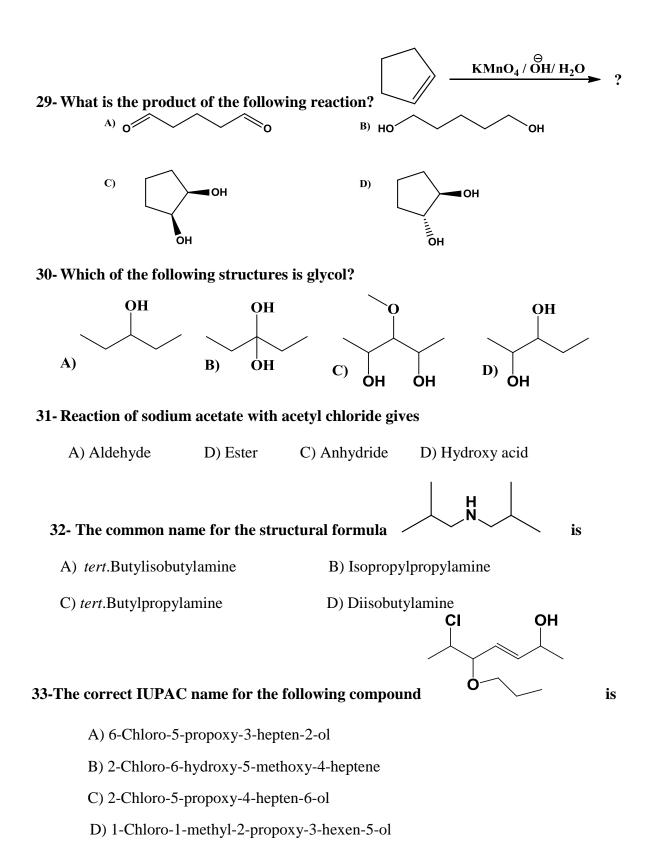


- A) Structural isomers B) Geometrical isomers
- C) The same compounds D) Both derivatives of carboxylic acid

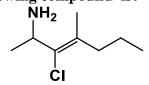


28- The least acidic compounds is





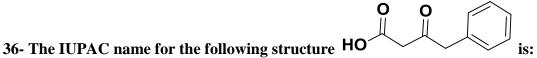
34- The IUPAC name for the following compound is?



- A) 3-Chloro-4-methyl-3-hepten-2-amine
- B) 2-Chloro-1,3-dimethyl-2-hexen-1-amine
- C) 5-Chloro-4-methyl-4-hepten-6-amine
- D) 5-Chloro-4,6-dimethyl-4-hexen-6-amine

35- Which of the following compounds is considered as acetal?

- A) 1,2- Dimethoxy propane
- B) 2,2-Dimethoxypropane
- C) 2-Methoxy-2-propanol
- D) 1,3-Dimethoxyproapne



- A) 3-Benzyl-3- oxo-propanoic acid
- B) 1- Phenyl-2-oxo-butanoic acid
- C) β Oxo- γ -Phenyl-butanoic acid
- D) 3-Oxo-4-Phenylbutanoic acid

37- Which one of the following compounds react with acetaldehyde to produce an imine?

A) CH_3NH_2

B) NaNH₂

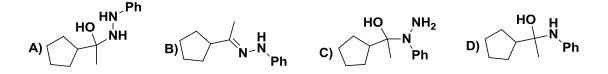
C) PhN₂Cl

D) NH₂OH

?

is

38- The product of the following reaction \longrightarrow $\stackrel{NH_2-NH-ph}{\longrightarrow}$



39- The main reaction of carbonyl in aldehydes and ketons is

A) Electrophilic substitution. C) Electrophilic addition.

B) Nucleophilic substitution.

D Nucleophilic addition.

