جامعة الملك سعود - كلية العلوم – قسم الكيمياء

الاختبار الفصلى الثانى في مقرر ١٤٥ كيم (١٠-٦-١٤٣١هـ)

الزمن: ٩٠ دقيقة

أسم الطالب: **رقم الطالب:**

نموذج الأجابة:

ملاحظة هامة: تصحيح الإمتحان سيكون بناء علي الأجابة المكتوبة فى الجدول أسفل (حرف الإجابة الصحيحة) ولن ينظر الى بقية الأوراق والتي تعتبر مسودة .

رقم السؤال	الإجابة	رقم السؤال	الإجابة
1		16	
2		17	
3		18	
4		19	
5		20	
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7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	

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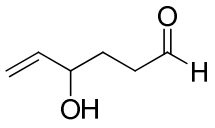
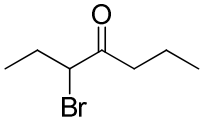
الزمن: ٩٠ دقيقة

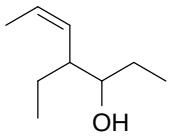
أسم الطالب: **رقم الطالب:**

1- The correct name of the following compound  is

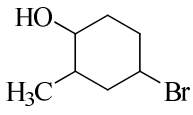
A) 3-hydroxyhexanal
B) 3-hydroxy-4-hexenal
C) 4-hydroxy-5-hexenal
D) 3-hydroxy-1-hexenal

2- The IUPAC name of  is:

A) 3-bromo-4-heptanone
B) 5-bromo-4-heptanone
C) 3-bromo heptanone
D) 4-bromo-3-heptanone

3- The IUPAC name of  is:

a) 4-Ethyl-5-heptyn-3-ol
b) 4-Ethyl-5-heptan-3-ol
c) 4-Ethyl-5-hepten-3-ol
d) 4-Ethyl-2-hepten-5-ol

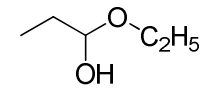
4- The IUPAC name of  is:

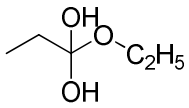
a) 3-Methyl-1-bromocyclohexanol
b) 2-Bromo-3-methylcyclohexanol
c) 4-Bromo-2-methylcyclohexanol
d) 3-Bromo-1-methylcyclohexanol

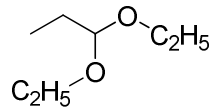
5- Addition of Grignard Reagent (RMgX) to ketone gives

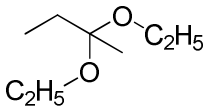
A) Primary alcohol
B) Secondary alcohol
C) Tertiary alcohol
D) Carboxylic acid

6- The structure of Acetal is:

A) 

B) 

C) 

D) 

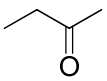
7- Reaction of phenyhydrazine with aldyhydes or ketones gives:

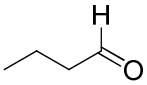
A) Oxime B) Phenylhydrazone C) Imine D) Hemiacetal

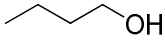
8- The common name of 2-methyl-2-propanol is:

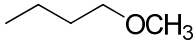
A) Allyl alcohol
B) Isopropyl alcohol
C) *tert*-Butyl alcohol
D) Benzyl alcohol

9- Which of the following compounds has the highest boiling point?

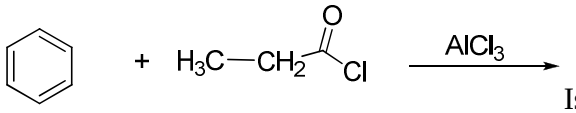
A) 

B) 

C) 

D) 

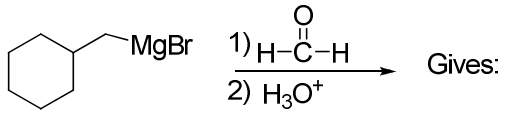
10- The product of the following reaction

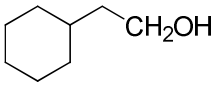


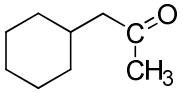
Is:

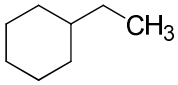
A) Acetophenone
B) Ethylphenyl ketone
C) Ethylbenzene
D) Phenylpropyl ketone

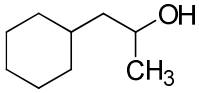
11- The following reaction gives



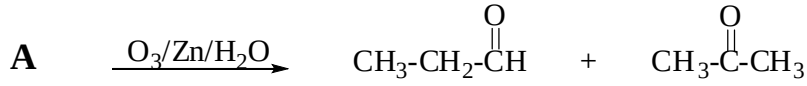
A) 

B) 

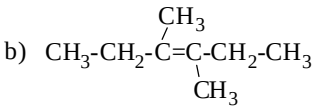
C) 

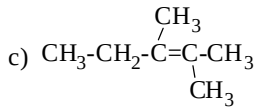
D) 

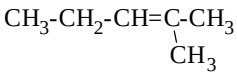
12- What is the structural formula of **A** in the following Reaction?



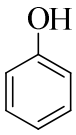
a) CH_3-CH_2-CH=CH-CH_3

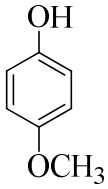
b) 

c) 

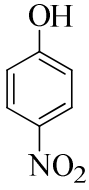
d) 

13- The most acidic compound is:

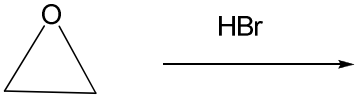
A) 

B) 

C) CH_3CH_2OH

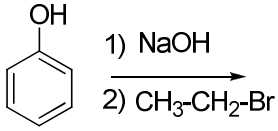
D) 

14- The following reaction gives



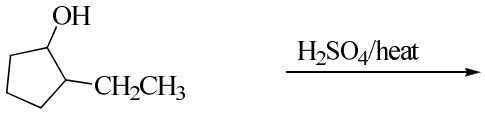
A) 2-bromoethanol B) Ethanol C) Ethane D) Bromoethane

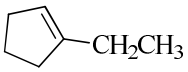
15- The following reaction gives:

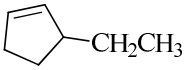


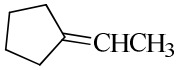
A) 4-Ethylphenol
B) 2-Ethylphenol
C) Ethylphenyl ether
D) Ethylphenyl ketone

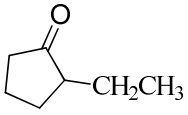
16- The main product from the following reaction is:

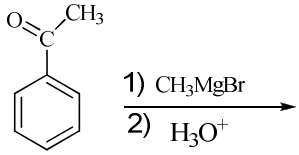


A) 

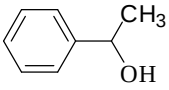
B) 

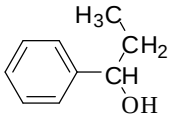
C) 

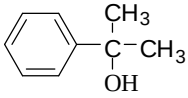
D) 

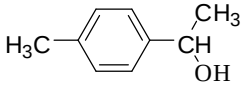
17- The following reaction 

gives:

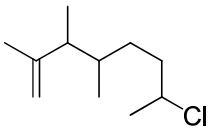
a) 

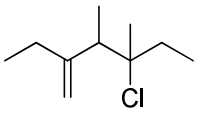
b) 

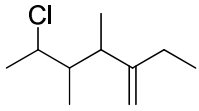
c) 

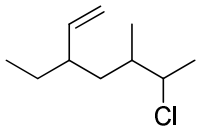
d) 

18- The structure of 5-Chloro-2-ethyl-3,4-dimethylhexene is:

A) 

B) 

C) 

D) 

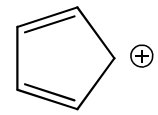
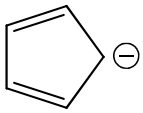
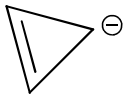
19- The reaction of Propyl bromide with NaOH is

A) Nucleophilic addition
B) Nucleophilic substitution
C) Electrophilic substitution
D) Electrophilic addition

20- Which of the following groups deactivate the benzene ring?

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

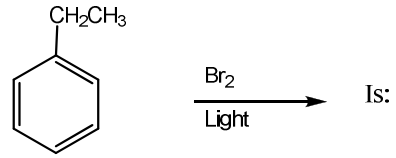
21- Which of the following compounds is aromatic?

A)  B)  C)  D) 

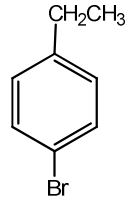
22- Bromination of the benzene ring is:

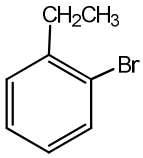
A) Electrophilic addition reaction..
B) Electrophilic substitution reaction.
C) Nucleophilic substitution reaction.
D) Nucleophilic addition reaction.

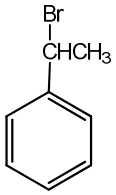
23- The main product of the following reaction

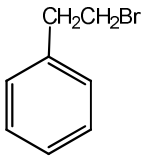


Is:

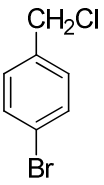
A) 

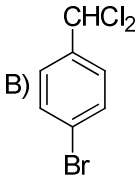
B) 

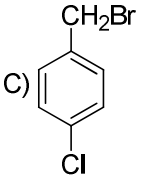
C) 

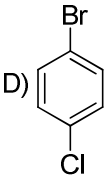
D) 

24- The structure of p-bromobenzylchloride is:

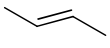
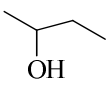
A) 

B) 

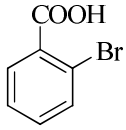
C) 

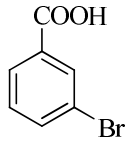
D) 

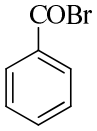
25- Which one of the following compounds undergoes the Electrophilic Substitution Reaction:

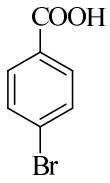
A)  B)  C)  D) 

26- Reaction of benzoic acid with $Br_2/AlBr_3$ gives:

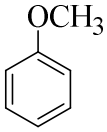
A) 

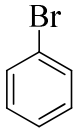
B) 

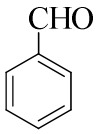
C) 

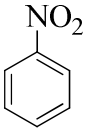
C) 

27- The most reactive compound towards sulphonation is

A) 

B) 

C) 

D) 

28- The most acidic alcohol is:

A) $CH_3CH_2CH_2$-OH

B) $CH_3\underset{\underset{OH}{|}}{C}HCH_3$

C) Cl_3C-CH_2-OH

D) $H_3C-\underset{\underset{OH}{|}}{\overset{\overset{CH_3}{|}}{C}}-CH_3$

29- The product of the following reaction is:

$$CH_3CH_2CH_2OH \xrightarrow{SOCl_2}$$

A) Propene

B) Dipropyl ether

C) 2-chloropropane

D) 1-chloropropane.

30- The product of the following reaction is:

$$CH_3\underset{\underset{CH_3}{|}}{C}HOCH_2CH_3 \quad + 2\ HI\ (excess) \xrightarrow{Heat}$$

A) Ethanol and propanol
B) Ethyl iodide and water
C) Isopropyl iodide and water
D) Isopropyl iodide , ethyl iodide and water