



Final Exam. of General chemistry (CH) for 1st level (faculty of veterinary medicine students)

PART A (Organic chemistry) : Model Answer
-Select the correct Answer (24 x 1 = 24 marks)

1- The most basic compound from the following is

a- RCl

b- RH

c- RNH₂

d- RNHR

2- The chlorination of methane in the presence of light gave methyl chloride and

a- CHCl₃

b- CCl₄

c- CH₂Cl₂

d- All of these

3- Reaction of RNHR with HNO₂ gives

a- Alkane

b- Alcohol

c- Nitroso compound

d- None of these

4- The name of $\text{CH}_3\overset{\text{CH}_3}{\underset{|}{\text{CH}}}\text{CH}_2\text{CH}_2\text{Br}$ is

a- 2-Methyl-4-bromobutane

b- 1-Bromo-3-methylbutane

c- 2-Methyl-3-bromobutane

d- None of these

5- Reaction of propene with HBr in the presence of peroxide gives

a- $\text{CH}_3\overset{\text{CHCH}_3}{\underset{|}{\text{CH}}}\text{Br}$

b- BrCH₂CH₂CH₂Br

c- CH₃CH₂CH₂Br

d- All of these

6- Compound with the highest boiling point in the following is

a- RNH₂

b- R₃N

c- RNHR

d- RH

7- Hydrolysis of ethyl chloride with aqueous NaOH gives

a- Ethylene

b- Acetone

c- Ethanol

d- None of these

8- Reaction of propanol with thionyl chloride gives

a- Propyl bromide

b- Butyl bromide

c- Butyl chloride

d- Propyl chloride

9- Reaction of RMgX with acetone gives

a- Primary alcohol

b- Tertiary alcohol

c- Secondary alcohol

d- All of these

10- The most soluble compound among the following is

a- Ethyl bromide

b- Methane

c- Hexanol

d- Ethanol

11- Oxidation of secondary alcohol gives

a- 1°ry alcohol

b- Acetone

c- Acetaldehyde

d- All of these

12- Reaction of RNH₂ with RCOCl gives

a- 1°ry amide

b- 3°ry amide

c- 2°ry amide

d- None of these

13- Reaction of tertiary amine with PhSO₂Cl gives

a- Soluble compd.

b- No reaction

c- Insoluble compd.

d- None of these

14- Which of the following compounds can not react with sodium metal?

a- CH₃-CH₂-OH

b- CH₃-CH₂-Br

c- CH₃-CH₃

d-CH₃-CH₂-O-CH₃

15- Which of the following alcohols would be oxidized to propan-2-one(acetone)?

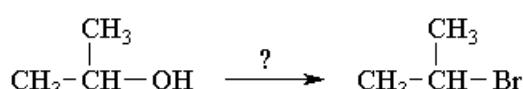
a- Ethanal

b-n-propanol

c-Propanal

d-Propan-2-ol

16- What is the best reagent to convert isopropyl alcohol to isopropyl bromide?



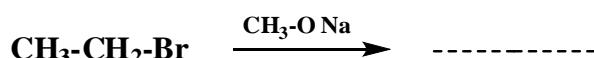
a-HBr

b-SOCl₂

c-Br₂

d-RMgBr

17- What is the major product obtained from the following reaction?



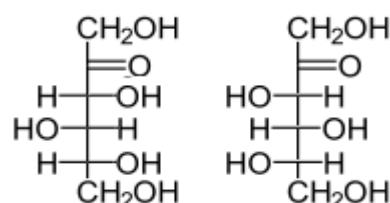
a-CH₃-O-CH₃

b- CH₃-CH₂-O-CH₃

c- CH₃-CH₂-CH₂-O-
Na

d-CH₃-CH₂-CH₃

18- The following stereoisomers are related as:



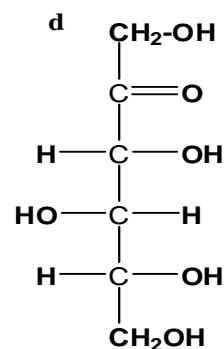
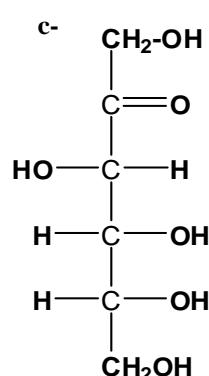
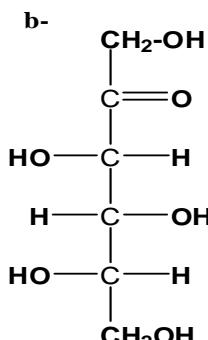
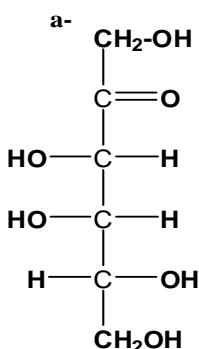
a- **Enantiomers**

b- Anomers

c- Epimers

d-None of the above

19- The structural formula of D- Fructose is

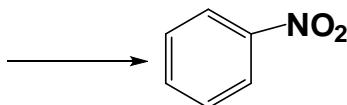
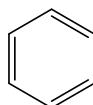


ملحوظة هامة: عزيزى الطالب عزيزتى الطالبة إنتبه (Part A organic chemistry)

والمكون من ثلاثة ورقات ٢٤ فقرة (٢٤ = ١x ٢٤) والخاص بـ a / وجدى الدجج و

a / على عبدالمعبود

20- The reagent required to convert



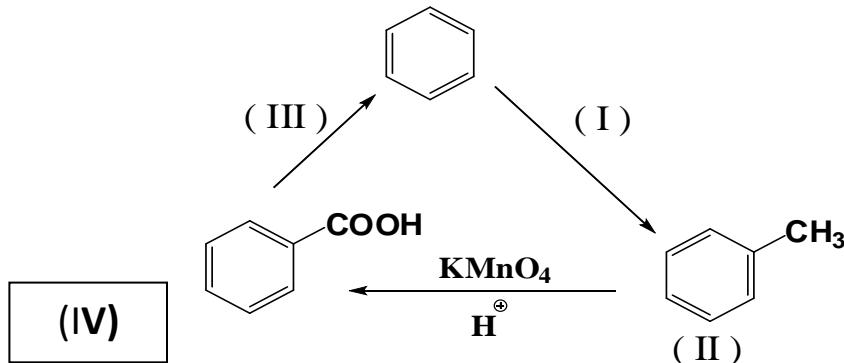
a- HNO_2 (dil)

b- H_2SO_4

c- HNO_3 (conc.)

d. $\text{HNO}_3/\text{H}_2\text{SO}_4$ (conc.)

From the following systematic diagram answer questions numbers 21, 22, 23 and 24



21- The reagent (I) in the above diagram is.....

- a- $\text{CH}_3\text{COCl}/\text{AlCl}_3$ (anh.) **b- $\text{CH}_3\text{Cl}/\text{AlCl}_3$** c- $\text{CH}_3\text{CH}_2\text{Cl}/\text{AlCl}_3$ (anh.) d- $\text{Cl}_2/\text{FeCl}_3$ (anh.)

22- Systematic name of compound (II) is.....

- a- Ethylbenzene b- Benzomethane **c- Toluene** d- Methylbenzene

23- The reagent (III) is

- a- NaOH/CaO** b- NaOH c- $\text{Ca}(\text{OH})_2$ d- KMnO_4/H^+

24- The correct name of compound (IV) is

- a- Benzene sulphonic b- Carboxy benzene **c- Benzoic acid** d- None of these
GOODLUCK Prof. Dr. Wagdy El-Dougdou & Prof. Dr. Ali Abdalmaboud

