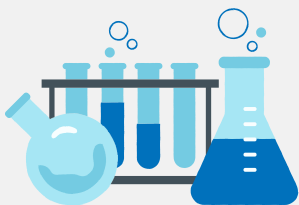


ORGANIC CHEMISTRY FINAL EXAM

أثر 2022

Done by:

- Fatimah atawi



الطب والجراحة
لجنة



1-Which of the following is used to prepare Benzoyl chloride from benzoic acid ?

Options:

Cl₂ and H₂O

So₂ and Cl₂

SoCl₂

Answer:c

2-What is the maximum number of optical isomers for a compound with 4 chiral carbons ?

Options:

16

12

4

8

None of the answers

answer:16

3-Which of the following are not alcohols

1-(CH₃)₃COH

2-(CH₃)₂C(OH)CH₃

3-CH₃(CH₂)₂CHO

all of the following

answer:3

4-Hydrocarbons with all single bonds are called

Aliphatic

Alkanes

Alkenes

Aromatic

answer:alkanes

5-the number of electrons in the valence shell of aluminum:

A-1

B-2

C-3

D-4

Answer:C



6-what's the name of the alkane that has two carbon atoms:

- A-methane**
- B-ethane**
- C-propane**
- D-butane**

Answer:b

7-What is the electron configuration of a carbon atom with a mass number of 6

- 1. $1s^2 2s^2 2p^2$**
- 2. $1s^2 2s^2 2p^4$**
- 3. $1s^2 2s^1 2p^3$**
- 4. $1s^2 2s^2 3p^2$**

answer:1

8-the most stable conformation of propane is:

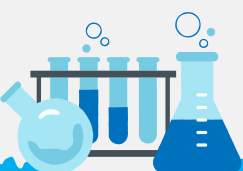
- a) Eclipsed**
- b) Staggered**
- c) Antiperiplanar**
- d) All conformations have the same stability**

Answer:b

9-the least stable conformation of propane is:

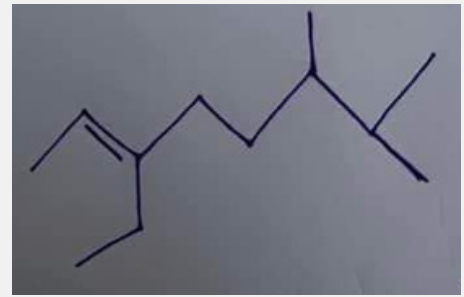
- 1. Eclipsed**
- 2. Staggered**
- 3. Boat**
- 4. Chair**
- 5. Planar**

Answer:1



Determine the correct IUPAC name to this picture

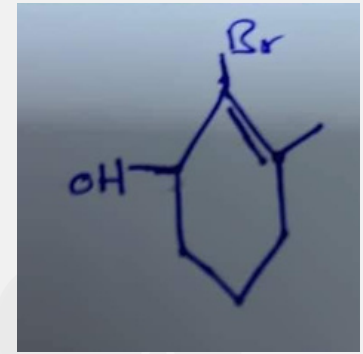
- a) (E)-3,6,7-trimethyloct-3-ene
- b) 3-methyl-6,7-octene-2-yne
- c) 4-ethyl-6,7-dimethyl octene
- d) 3-ethyl-6,7-dimethyl octene



Answer:d

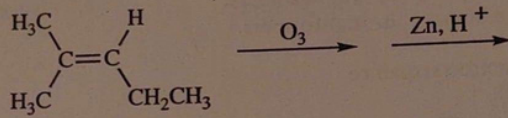
Determine the correct IUPAC name to this picture

- a. 1-bromo-2-hydroxy-3-methyl-1-hexene hydroxyl
- b. 2-Bromo-3-hydroxy-4-methylpentanol
- c. 1-(2-Hydroxyethyl)-4-bromo-3-methyl-1-butene
- d. 1-Bromo-2-hydroxy-3-methylhex-5-en-1-ol.

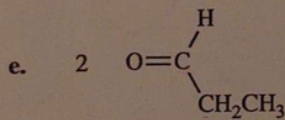
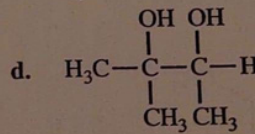
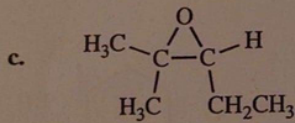
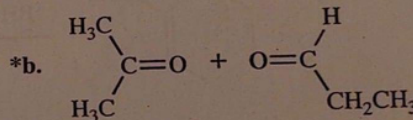
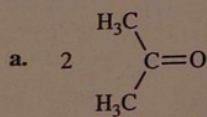


answer:a

3.31. The products of the following reaction sequence



are



اعزم وكذ فإن مضيت فلا تقف، واصبر وثابر فالنجاح محقق
ليس الموفق من تواتيه المني، لكن من رزق الثبات موفق
خليل مطران

