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Total questions in exam. 40 | Answered. 5

Question No. 23

What is the  $[H_3O^+]$  in a solution with  $[OH^-] = 1 \times 10^{-12} M$ ?

- 0 1 x 10 M
- 0 1 x 10<sup>-2</sup> M
- <sup>0</sup> 1 x 10<sup>-12</sup> M
- $0 1 \times 10^2 M$



Total questions in exam: 40 | Answered: 22

#### Question No. 21

What is the coefficient of oxygen gas after balancing the following equation  $\underline{\hspace{1cm}} H_2O_2(l) \xrightarrow{\Delta} \underline{\hspace{1cm}} H_2O(l) + \underline{\hspace{1cm}} O_2(g)$ 

- 04
- 01
- 0 3
- 02

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*	file:///C:/Users/GOOGLE/Downloads/20% من 20%Chemistry%20f inal%20(%201440)%20.pdf
8 AV   12 9 + -	
Question No. 1	
An aqueous solution of	is collisidered as strong electrolyte, thus, it can conduct electricity.
*	
O CO2	
○ C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	
LiCI	
C <sub>8</sub> H <sub>18</sub>	
	and the second s

Total questions in exam: 40 | Answered: 22

#### Question No. 21

What is the coefficient of oxygen gas after balancing the following equation?

$$\underline{\hspace{1cm}} \text{H}_2\text{O}_2(l) \xrightarrow{\Delta} \underline{\hspace{1cm}} \text{H}_2\text{O}(l) + \underline{\hspace{1cm}} \text{O}_2(g)$$

Total questions in exam: 40 | Answered: 5

Question No. 25

The most correct name for the compound NI3 is:

- nitrogen triiodide
- mononitrogen triiodide
- nitrogen iodide
- triiodo nitrogen

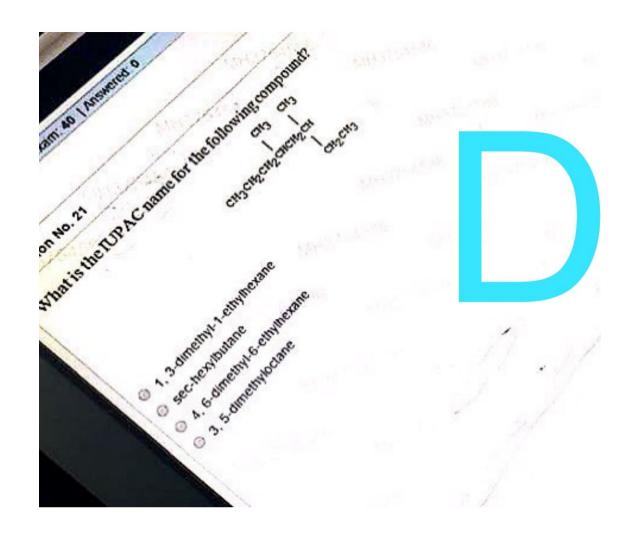


## Question No. 23

Which of the following solutions is the most basic?

- $[H_3O^+] > 1.0 \times 10^{-7} \text{ M}$
- $[H_3O^+] = 1.0 \times 10^{-10} \text{ M}$
- $OH \cdot = 1.0 \times 10^{-10} \text{ M}$
- OH-] < 1.0 × 10-10 M







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A chemical equation is balanced when

- the total number of ions is the same in reactants and products.
- the number of atoms of each element is the same in reactants and products.
- the total number of molecules is the same in reactants and products.
- the sum of the coefficients of the reactants is equal to the sum of the coefficients of the products.

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Total questions in exam: 40 | Answered 5

Question No. 32

Which statement about diluted solutions is false? When a solution is diluted,

# The functional groups in the molecule below are

- O aldehyde and ketone
- o aldehyde and amine
- O carboxylic acid and amine
- ketone and amine

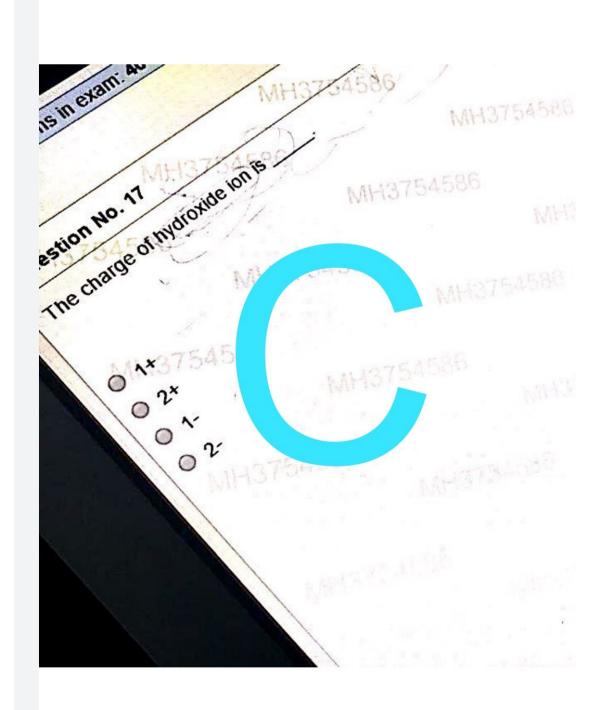


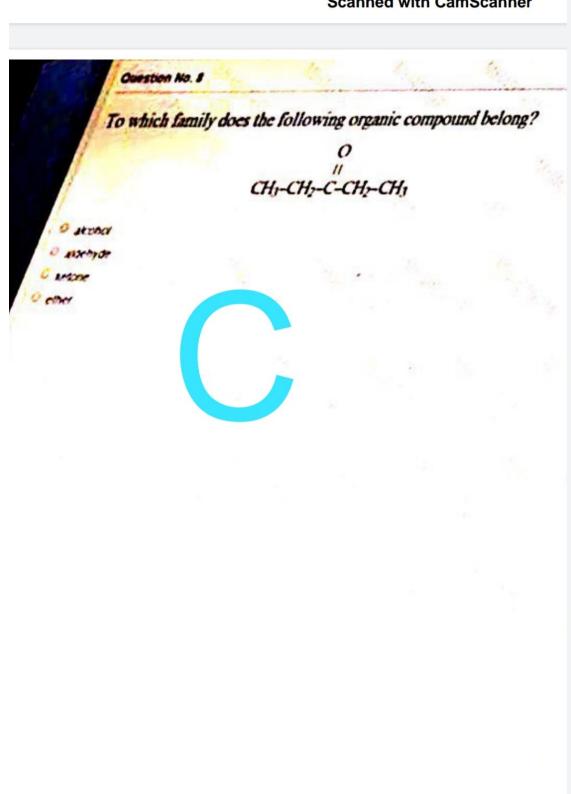
# Total questions in exam: 40 | Answered: 28

## Question No. 34

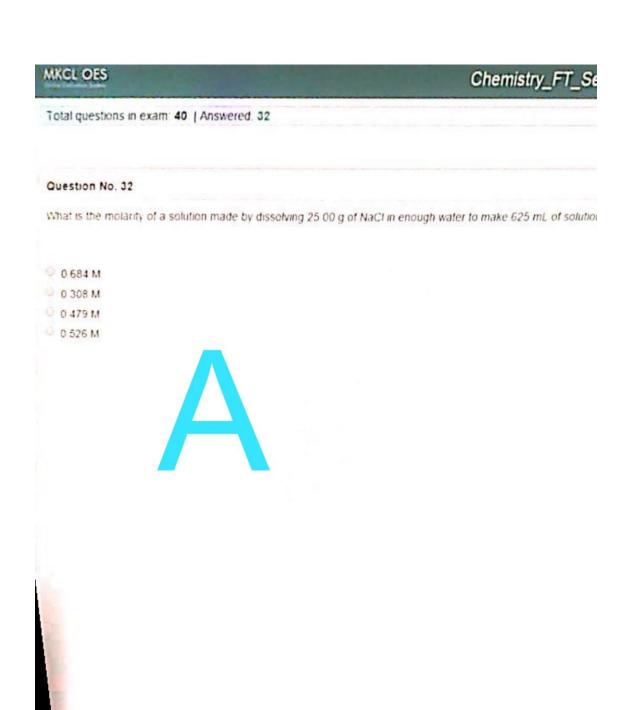
Which structure below represents a ketone?











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MKCL OES

Chemistry\_FT

Total questions in exam 40 | Answered 32

Question No. 33

Dinitrogen tetraoxide decomposes to produce nitrogen dioxide. Calculate the equilibrium constant for the reaction given the equilibrium concentrations at 100 °C:

 $[N_2O_4] = 0.60 M$  and  $[NO_2] = 1.00 M$ .

$$N_2O_4(g) \rightleftharpoons 2NO_2(g)$$

 $K_{\rm C} \approx 1.67$ 

 $K_{\rm C} = 2.00$ 

 $K_{\rm c} = 0.625$ 

 $K_{\rm C} = 0.500$ 



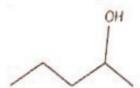
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# MKCL OES

Total questions in exam: 40 | Answered: 32

Question No. 37

Identify the type of this organic compound:



- ketone
- alcohol
- carboxylic acid
- aldehyde

В

119/12



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Total questions in exam: 40 | Answered: 32

Question No. 38

Solutions that resist sharp changes in their pH values are called \_\_\_\_\_\_.

- adducts
- electrolytes
- non-electrolytes
- buffers



and of the changes listed below will shift the equilibrium position to the right for the following reversible reaction?  $SO_3(g) + NO(g) + heat \approx SO_2(g) + NO_2(g)$ 

- A decrease of temperature
- An increase of [SO3]
- An increase of [SO2]

119/145



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Total questions in exam: 40 | Answered: 32

Question No. 39

When the temperature is decreased on the following system at equilibrium:  $HCl_{(aq)} + Mg_{(s)} \rightleftharpoons MgCl_{2(aq)} + H_{2(g)} + heat$ 

- O None of these choices is true
- the reaction shifts left to restore equilibrium
- the reaction shifts right to restore equilibrium
- No change occurs





# 



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# MKCL OES

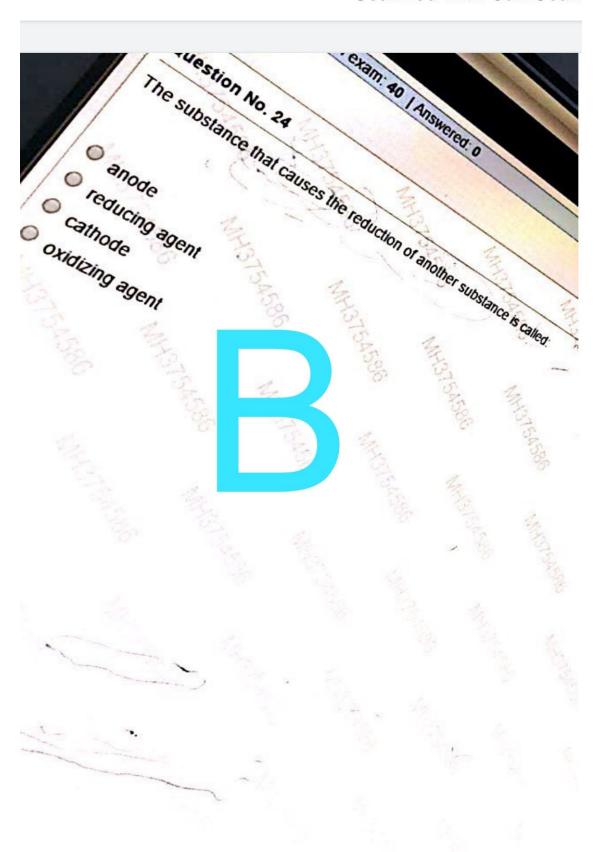
Total questions in exam: 40 | Answered: 11

## Question No. 8

What substance is oxidized in the following redox reaction?  $Zn(s) + Cu^{2+}(aq) \rightarrow Zn^{2+}(aq) + Cu(s)$ 

- O Zn
- O Cu
- O Zn2+
- Cu2+







Total questions in exam: 40 | Answered: 5

#### Question No. 24

Refer to the equilibrium shown below. Adding excess oxygen will  $CH_4(g) + 2O_2(g) \rightleftharpoons CO_2(g) + 2H_2O(g)$ 

- o have no effect
- o cannot be determined, since the temperature is not known
- shift the reaction to the right
- shift the reaction to the left





## Question No. 27

After a chemical reaction reaches equilibrium,

- The amount of products is increasing.
- The amount of reactants and products are constant.
- The amount of products is decreasing.
- The amount of reactants and products are equal.



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Total questions in exam: 40 | Answered: 11

Question No. 8

Total questions in ex	am: 40   A	nswered: 3	15						
Question No. 29	Tolland	V. Marie	70000	Con	10000	10000	10000	10000	100
What is the emptand 15.8% H?	irical forn	nula of th	e compo	und that	has a con	position	ıby mass	of84.29	6С.
O C <sub>3</sub> H <sub>8</sub> O C <sub>4</sub> H <sub>10</sub>		6	64						
C <sub>4</sub> H <sub>9</sub> C <sub>3</sub> H <sub>9</sub>		₩ 1							
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Total questions in exam: 40 | Answered: 32

#### Question No. 30

Which of the following is true if the hydronium ion concentration "increases" in an aqueous solution?

- pH decreases
- pH increases
- Kw increases
- Kw decreases



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Total questions in exam: 40 | Answered: 5

#### Question No. 20

Identify the conjugate acid in the following reversible reaction.  $HF(aq) + HSO_3(aq) \leftrightarrow F(aq) + H_2SO_3(aq)$ 

- F (aq)
- H<sub>2</sub>SO<sub>3</sub>(aq)
- O HF(aq)
- HSO<sub>3</sub>-(aq)

B

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Total questions in exam: 40 | Answered: 32

Question No. 39

When the temperature is decreased on the following system at equilibrium:  $HCl_{(aq)} + Mg_{(s)} \rightleftharpoons MgCl_{2(aq)} + H_{2(g)} + heat$ 

- O None of these choices is true
- the reaction shifts left to restore equilibrium
- the reaction shifts right to restore equilibrium
- No change occurs



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Total questions in exam: 40 | Answered: 5

Question No. 26

Which of the following pairs of species is NOT a conjugate acid-base pair?

- H2SO4 and HSO4
- NH3 and NH2
- H2O and OH
- O HSO4 and SO42

B

# Question No. 28

For the following acid-base reaction, identify HCl + NaOH ≠ ????? + ?

- H3OCl, acid
- NaOH2, base
- NaCl, acid
- NaCl, water

Total questions in exam: 40 | Answered: 32

Question No. 29

In the reaction below, what is the theoretical yield in grams for B<sub>2</sub>H<sub>6</sub> when 5 moles of BF<sub>3</sub> react with 4 moles of NaH?

 $8BF_3 + 6NaH \rightarrow 6NaBF4 + B_2H_6$ 

- 28.5 g
- 0 9.5 g
- 0 17.3 g
- 0 12.5 g

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Total questions in exam: 40 | Answered: 5



## MKCL OES

Chem

Total questions in exam: 40 | Answered: 5

#### Question No. 21

Determine the limiting reactant (LR) and the theoretical yield (in g) of iron (I can be formed from 28.65 g Fe<sub>2</sub>O<sub>3</sub> and 10.0 g Al according to the following e Fe<sub>2</sub>O<sub>3</sub> + 2 Al  $\rightarrow$  Al<sub>2</sub>O<sub>3</sub> + 2 Fe

- O Al, 19.99 g Fe.
- Fe<sub>2</sub>O<sub>3</sub>, 20.7 g Fe.
- Fe<sub>2</sub>O<sub>3</sub>, 19.99 g Fe.
- O Al, 20.7 g Fe.



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Total questions in exam: 40:   Answ	ered: 400				
Questian No. 39	Var. Na.	13 h	TOTAL	- Man	illus.
A reaction with an equilibriu	m constant K <sub>c</sub> =1.	x 10 <sup>16</sup> would co	onsist of which	of the followi	ng at equilibriu
some reactants and products with					
mainly reactants are favored	In the same of the	The state of the s	Physical Land	PNOT	PAREL
mainly products are favored.	475 H		La Transfer	14272	
approximately equal reactants as	nd products			ST. ST.	
		200			
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	2000 2000 2000 2000 2000 2000 2000 200				
			e e		

#### Question No. 22

Solid aluminum and gaseous oxygen react in a combination reaction to produce  $Al_2O_3$  $4Al(s) + 3O_2(g) \rightarrow 2Al_2O_3(s)$ 

The maximum amount of Al<sub>2</sub>O<sub>3</sub> that can be produced from 2.5 g of Al and 2.5 g of O<sub>2</sub> is \_\_\_\_\_\_g.

- 0 4.7
- 0 7.4
- 0 5.3
- 9.4









Total questions in exam: 40 | Answered: 40

#### Question No. 6

gives a non-electrolyte when dissolved in water.

- weak base
- CaCl<sub>2</sub>
- HNO₃
- O C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>



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What is the type of the following alcohol?

- O Quaternary
- O streety
- 0 SHIRRARY
- 6 Tertary

**Primary** 

MKCL OES

Chemis

Total questions in exam: 40 | Answered: 40

Question No. 3

What is the coefficient of oxygen gas after balancing the following equation?  $AgClO_3(s) \xrightarrow{\Delta} AgCl(s) + O_2(g)$ 

- 0 1
- 0 3
- 0 2
- 0 4

B

## MKCL OES

Total questions in exam: 40 | Answered: 11

## Question No. 8

What substance is oxidized in the following redox reaction?  $Zn(s) + Cu^{2-}(aq) \rightarrow Zn^{2-}(aq) + Cu(s)$ 

- O Zn
- Cu
- 2n2+
- Cu2+



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MKCL OES

Chemis

### Question No. 7

If 5.0 moles of LiF are dissolved in enough water to make 2.5 L of solution, calculate the molarity of this solution.

- 1.0 M
- O 2.0 M
- O 2.5 M
- O 0.75 M

B

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MKCL OES

Total questions in exam: 40 | Answered: 0



# Question No. 8

Which of the following molecular formulas corresponds to an alkene?

- C<sub>§</sub>H<sub>16</sub>
- O C8H14
- O C<sub>8</sub>H<sub>20</sub>
- O C8H18



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Chemistry\_FT

Total questions in exam: 40 | Answered: 40

Question No. 14

How many grams of AlCl<sub>3</sub> could be produced when 1.5 moles of Cl<sub>2</sub> completely react with aluminum according to the reaction?

 $2A1 + 3Cl_2 \rightarrow 2AlCl_3$ 

0 134 g

∪ 333 g

• 267 g

9 533 g



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Total questions in exam: 40 | Answered: 0

# Question No. 4

What is the oxidation number of iron in Fe<sub>2</sub>O<sub>3</sub>?

- 0 -6
- 0 -3
- 0 +3
- O +6

Total questions in exam: 40 | Answered: 0

Question No. 6

Which of the following generic formulas is correctly representing a "saturated hydrocarbon"?  $C_nH_{2n+2}$   $C_nH_n$   $C_nH_{2n-2}$   $C_nH_{2n}$ 

# MKCL OES

Total questions in exam: 40 | Answered: 0

# Question No. 5

What is the correct name of the following compound?

- 2-fluoropropane
- fluoropropy!
- 2-fluorobutane
- 1-fluoropropane



# Question No. 40

What is the final molarity of H<sub>2</sub>SO<sub>4</sub> solution, if 80 mL of 4M H<sub>2</sub>SO<sub>4</sub> was diluted to a final volume of 1 L?

- 0 0.48 M
- 0.24 M
- O 0.32 M
- 0.40 M



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### Total questions in exam: 40 | Answered: 0

## Question No. 3

The following reaction is exothermic. Which of the following will drive the reaction the right (towards products)?

$$CH_4(g) + 2 O_2(g) \rightleftharpoons CO_2(g) + 2 H_2O(g) + heat$$

- An increase in temperature
- O An increase of H2O



## Scanned with CamScanner

Total questions in exam: 40 | Answered: 0

### Question No. 3

The following reaction is exothermic. Which of the following will drive the reaction to the right (towards products)?

 $CH_4(g) + 2 O_2(g) \rightleftharpoons CO_2(g) + 2 H_2O(g) + heat$ 

- An increase in temperature
- An increase of H<sub>2</sub>O
- The removal of CH<sub>4</sub>
- O A decrease of CO2

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### Scanned with CamScanner

# Total questions in exam: 40 | Answered: 0

### Question No. 2

What substance is the oxidizing agent in the following redox reaction?  $Zn(s) + Cu^{2+}(aq) \rightarrow Zn^{2-}(aq) + Cu(s)$ 

- Cu2+
- O Zn
- Cu
- Zn2+



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MKCL OES Chemistry FT Se

# Question No. 38 When the substances in the equation below are at equilibrium, at pressure P and temperature T, the equilibrium can be shifted to favor the products by $CuO(s) + H_2(g) \rightleftharpoons H_2O(g) + Cu(s) + Heat$ © adding more CuO increasing the pressure. © decreasing the temperature Scientific Calculator

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Which of the following is NOT a conjugate acid/base pair?

- H<sub>2</sub>SO<sub>3</sub> /SO<sub>3</sub><sup>2</sup>-
- O HCl/Cl-
- HNO<sub>3</sub> / NO<sub>3</sub>-
- HBr/Br



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What is the family of a compound that has he following general formula?

R—C—H

ketone
aldehyde
carboxylic acid
ester

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Give the direction of the reaction, if Kc >> 1

- Both directions are equally favored.
- The forward reaction is favored.
- The reverse reaction is favored.
- Neither direction is favored.



Question No. 37

Determine the value of  $K_c$  for the following reaction if the equilibrium concentrations are as follows:  $[N_2]_{eq} = 1.5 \text{ M}$ ,  $[H_2]_{eq} = 1.1 \text{ M}$ ,  $[NH_3]_{eq} = 0.47 \text{ M}$ .

 $N_2(g) + 3 H_2(g) \rightleftharpoons 2 NH_3(g)$ 

- 0.11
- O 3.5
- 0.28
- 0 9 1

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Question No. 36

# Choose the correct name for the following compound:

- 2-bromo-2-methyltoluene
- 1-bromo-1,2-dimethylcyclohexane
- 1-bromo-1,2-dimethylbenzene
- 2-bromo-1,2-dimethylcyclohexane



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# The conjugate base of H2SO4 is

- O HSO4.
- O HSO4+
- H2SO4
- OH-



Question No. 29	Allegar.	1240	2440	
Organic compounds that cont	ain a "benzene ri	ng" are called	compounds	
saturated carboxylic cycloalkane aromatic	Mydaga S	19440900	411408003	
day day				
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Question No. 32

What is the [OH<sup>-</sup>] in a solution that has a  $[H_3O^+] = 1 \times 10^{-6} M$ ?

- O 1 x 10-8 M
- <sup>☉</sup> 1 x 10<sup>-2</sup> M
- 0 1 x 10-6 M
- 1 x 10<sup>-10</sup> M



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# FINAL... محلول B&H



Question No. 31	4400	MHADO	MHADO	MHADO	MHZOO	MY
How many gram with Cl <sub>2</sub> according			duced when 9	4.5 grams of A	l completely r	eact
Mys 4	Han		Cl <sub>2</sub> → 2AlC	13 MH30	MHAD	11/
● 533 g ● 133 g	708 <sub>0689</sub>	~0806	89	589	689	689
<ul><li>● 399 g</li><li>● 467 g</li></ul>	Tr.	An	An.	Arc.	Are	
799680		1740304	174081			
		A Topics	September 1			

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# How many grams of AlCl<sub>3</sub> could be produced when 94.5 grams of Al completely react with Cl<sub>2</sub> according to the reaction? 2Al + 3Cl<sub>2</sub> → 2AlCl<sub>3</sub> 533 g 133 g 399 g 467 g

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# Total questions in exam: 40 | Answered: 3 Question No. 27 The mass percent composition of oxygen in the acid H<sub>2</sub>SO<sub>3</sub> is: 0 65.3% 0 2.5% 0 58.5% 0 39.1%

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# Question No. 24

Identify the substance that contains ionic bond.

- O KCl
- 0 Ne
- o co
- H₂O

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uestion No. 25

dentify the Bronsted-Lowry conjugate acid in the following reaction

$$H_2O + CO_3^2 \rightarrow HCO_3^- + OH^-$$

HCO3

) H<sub>2</sub>O

CO<sub>3</sub><sup>2-</sup>

OH-

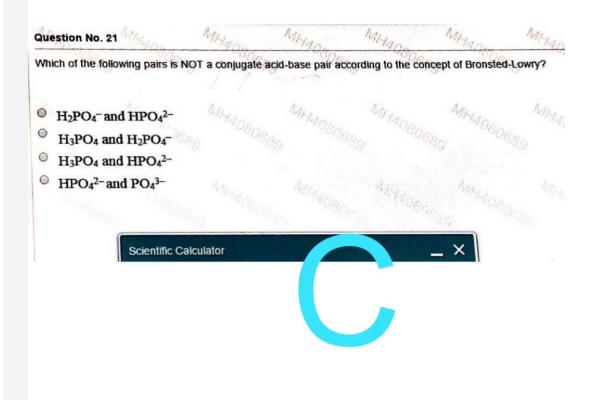


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# Question No. 26 Based on Lewis structures, the number of lone pairs of electrons in the water molecule And Androne A

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Question No. 23	Myan	Mylyn	14/40
Which of the following exp	ression symbols is us	sed for quantifying	acidity and basicity
	1 6		
<b>⊙</b> рн	May	Mys	Aller
O aH	lone. Top	0.900	b. "U806b
● bH	- C.O	9	001
○ ен			
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Question No. 20

Which of these substances gives a weak electrolyte when dissolved in water?

- ionic salt
- strong acid
- weak base
- strong base

C

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### Question No. 16

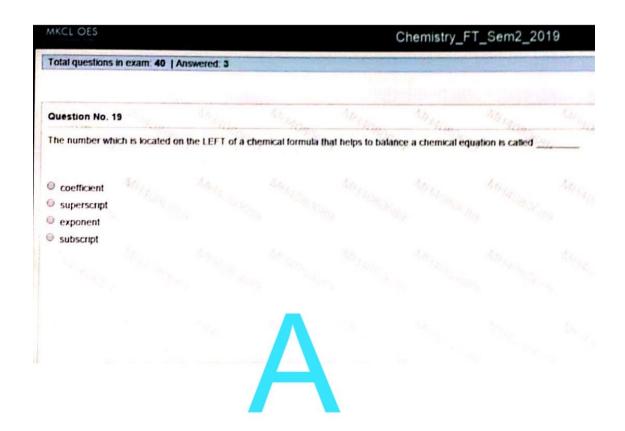
Provide the name of the compound below.



- 1,3-dimethylcyclohexane
- 1,2-dimethylhexane
- 2.4-dimethylcyclohexane
- Dimethylcyclohexane

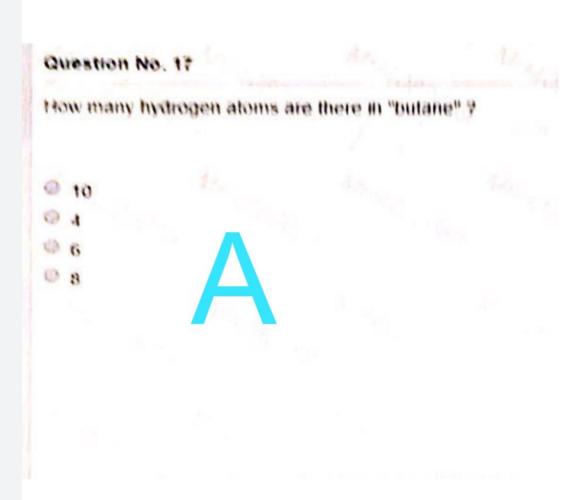


Scientific Calculator



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Which of the following is a polyatomic ion?

- NO31-
- O Br1-
- Na<sup>1+</sup>
- @ S2-

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Question No. 10

How many moles of (NH4), S are there in 150 g of (NH4), S?

- 0 1.56
- 0 154
- 0 221
- 0 15

C

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The oxidation number of Cr in Cr<sub>2</sub>O, 2 is \_\_\_\_\_

- 0 .7
- 0 .6
- 0 .5
- 0 .4

What is the mass% of carbon in (C2H5O2)?

- 0 773%
- @ 63%
- 6 30 6%
- @ 38 7%

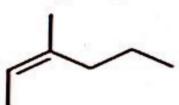
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Total questions in exam. To Transmerou.

# Question No. 5

What is the name of the following compound?



- 3-methylenehexane
- 3-methyl-3-hexene
- 4-ethyl-4-hexene
- 3-methyl-2-hexene





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# Question No. 7

# The IUPAC name of C3H4 is \_\_\_

- propene
- propane
- butyne
- propyne

### Question No. 9

How many grams of AlCl<sub>1</sub> could be produced when 54 grams of Al completely react with Cl<sub>2</sub> according to the reaction?

- 0 342 9
- 0 1120
- 0 133 0
- 9 267 0



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### Scanned with CamScanner

Session NO. 8

If the reaction is endothermic, which of the following is always true?

- the reaction gives out heat
- the reaction rate is fast
- the reaction rate is slow

Total questions in exam: 40 | Answered: 3

Question No. 11

To which family does this organic compound belong?

- ether
- o amine
- carboxylic acid
- o amide

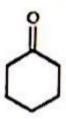


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Question No. 2

Identify the type of this organic compound:



- ketone
- aldehyde
- carboxylic acid
- alcohol



### Question No. 4

lonic bonding is formed as a result of \_\_\_\_\_

- transfer of electrons.
- sharing of electrons
- gain of electrons only.
- loss of electrons only.



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### Question No. 1

# The name of the chemical compound KNO3 is:

- o potassium nitrite
- opotassium(I) nitrite
- o potassium(I) nitrate
- potassium nitrate



Total questions in exam: 40 | Answered: 0

### Question No. 1

Express the equilibrium constant for the following reaction.  $PCl_5(g) \rightleftharpoons PCl_3(g) + Cl_2(g)$ 

$$K = \frac{[PCl_3][Cl_2]}{[PCl_5]}$$

$$K = \frac{[PCl_3]^2[Cl_2]^{2}}{[PCl_5]^2}$$

$$K = \frac{[PCl_5]}{[PCl_3][Cl_2]}$$

$$K = \frac{[PCl_3][Cl]^2}{[PCl_5]}$$



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### Question No. 3

Determine the molecular formula of a compound that has a molar mass of 146 g/mol an an empirical formula of  $C_3H_5O_2$ .

- C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>
- O C9H15O6
- C<sub>6</sub>H<sub>15</sub>O<sub>4</sub>
- C<sub>6</sub>H<sub>10</sub>O<sub>4</sub>

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Question No. 4

### Question No. 6

What is the equilibrium constant expression for the following reaction?  $4 \text{ NH}_3(g) + 5 \text{ O}_2(g) \rightleftharpoons 4 \text{ NO}(g) + 6 \text{ H}_2\text{O}(g)$ 

- $K_{c} = [NH_{3}]^{4} [O_{2}]^{5} / [NO]^{4} [H_{2}O]^{6}$
- $K_{\rm C} = [{\rm NO}]^4 [{\rm H_2O}]^6 / [{\rm NH_3}]^4 [{\rm O_2}]^5$
- $^{\circ}$   $K_{c} = [NO][H_{2}O]/[NH_{3}][O_{2}]$
- $K_c = [NH_3][O_2]/[NO][H_2O]$

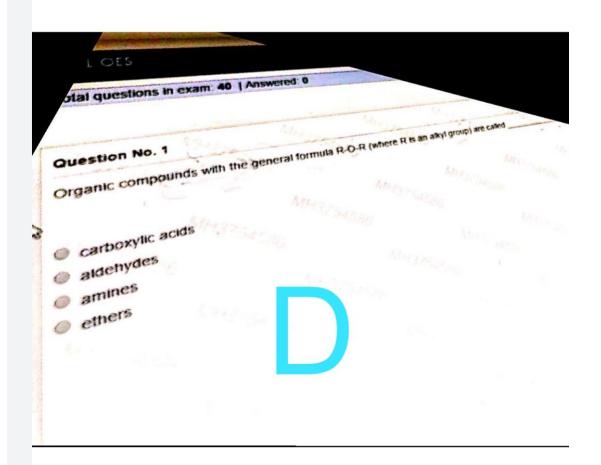
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# Question No. 2 Consider the reaction: $2 \cdot SO_2(g) + O_2(g) \leftrightarrow 2 \cdot SO_3(g)$ If, at equilibrium at a certain temperature, $[SO_2] = 1.50 \text{ M}$ , $[O_2] = 0.120 \text{ M}$ , and $[SO_3] = 1.25 \text{ M}$ , what is the value of the equilibrium constant $K_{eq}$ ? 0.14 8.68 5.79 6.94

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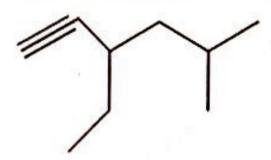


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Total questions in exam: 40 | Answered: 0

### Question No. 2

# Name the following compound:



- 2-methyl-4-ethyl-5-hexyne
- 4-ethyl-2-methyl-5-hexyne
- 3-ethyl-5-methyl-1-hexyne
- 5-methyl-3-ethyl-1-hexyne

### Question No. 36

If the reaction is endothermic, which of the following is always true?

- the reaction rate is fast
- the reaction takes in heat
- the reaction gives out heat
- the reaction rate is slow

В

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The reaction that requi	ires thermal energ	y to proceed is	known as	reaction
oxidation				
o endothermic				
isothermic isothermic				
exothermic				
HIA PARA				
All the Things				

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# Scanned with CamScanner Question No. 27 Refer to the equilibrium shown below. Which of the following will shift the reaction to the right? CH<sub>4</sub> (g) + 2O<sub>2</sub> (g) = CO<sub>2</sub> (g) + 2H<sub>2</sub>O (g) adding excess oxygen o increasing the pressure removing carbon dioxide as soon as it is formed adding O2 and removing CO2

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Refer to the equilibrium s  shift the reaction to the left shift the reaction to the right cannot be determined, since have no effect	CH <sub>4</sub> (g) + 2O <sub>2</sub> (g) ≠ CO	on volume is increased, this will
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### Question No. 12

In the following reaction, what is the effect on the direction of the reaction if more  $SO_3$  is added to the reaction mixture?

$$2SO_2(g) + O_2(g) \rightleftharpoons 2SO_3(g)$$

- The equilibrium shifts to produce more products.
- The rate of formation of products is increased.
- The position of the equilibrium remains unchanged.
- The equilibrium shifts to produce more reactants.



in a neutralization reaction,

- an acid reacts with a base to form a salt and water
- two acxes react to form water
- water and a sait react to form an acid and a base
- an acid and a sait react to form water and a base



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### Question No. 21

"A system at equilibrium tends to maintain equilibrium", this statement is known as

- Avogadro's principle
- Haber's law
- The law of chemical equilibrium
- Le Chatelier's principle



### Question No. 20

# What is the IUPAC name for: CH3-CH2-CH2-CH3?

- pentane
- butane
- heptane
- O hexane





### Total questions in exam: 40 | Answered: 11

### Question No. 32

Which of the following pairs is NOT a conjugate acid-base pair according to the concept of Bronsted-Lowry?

- O H<sub>3</sub>PO<sub>4</sub> and HPO<sub>4</sub><sup>2</sup>-
- H<sub>3</sub>PO<sub>4</sub> and H<sub>2</sub>PÒ<sub>4</sub>-
- H<sub>2</sub>PO<sub>4</sub><sup>-</sup> and HPO<sub>4</sub><sup>2-</sup>
- O HPO<sub>4</sub><sup>2</sup>- and PO<sub>4</sub><sup>3</sup>-



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Question No. 39

If the [OH] in a blood sample =  $1 \times 10^{-7}$ , the pH of this blood sample is \_\_\_\_\_

- $\circ$  pH = 1 x 10-7
- $9 \text{ pH} = 1 \times 10^{-7}$
- O pH = 7
- 0 pH = 7



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Save & Next منا راكلي Scanned with CamScanner Total questions in exam: 40 | Answered: 30 Question No. 40 Based on Lewis dot structures, the number of lone pairs of electrons in HCI molecule is 0 1 0 2 03 00

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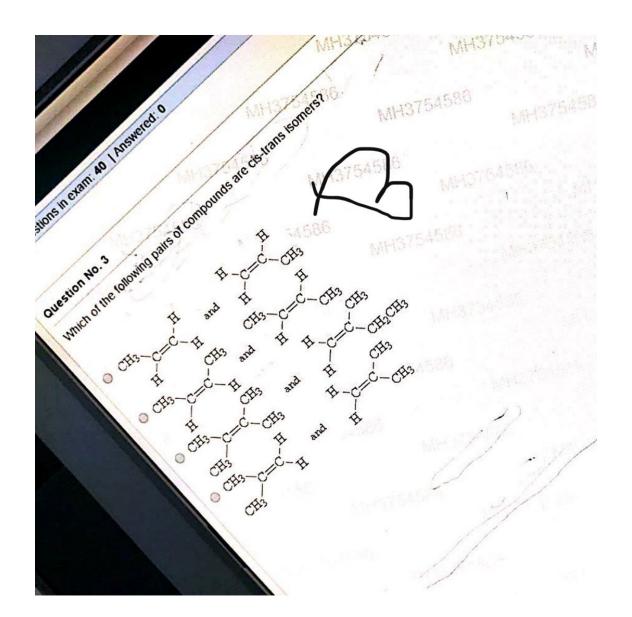
A solution is made by dissolving 2.68 mole of KF in enough water to give a final volume of 1030 mL. What is the molarity of the solution?

1.52 M
2.60 M
0.0800 M
0.125 M

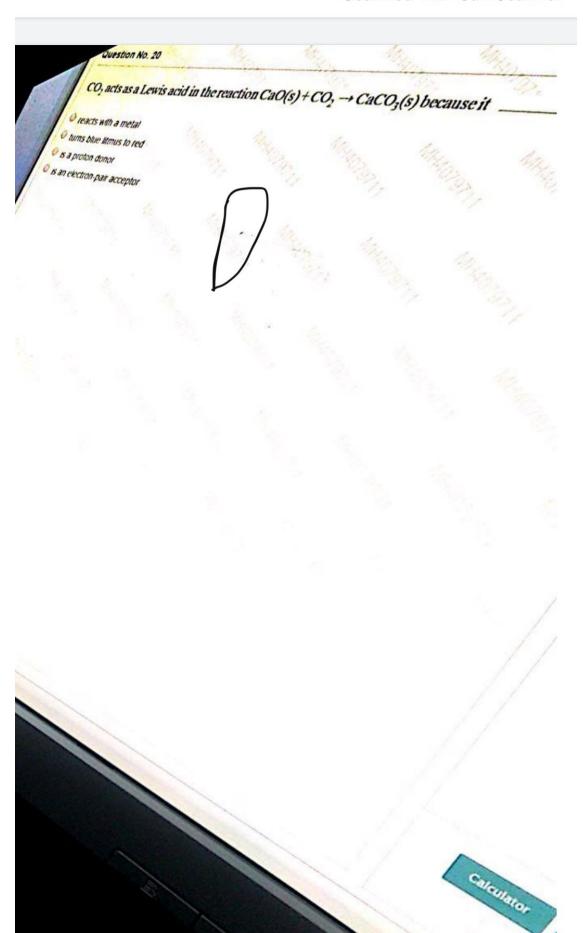
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Question No. 38

Provide the name of the compound below.

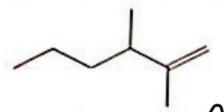






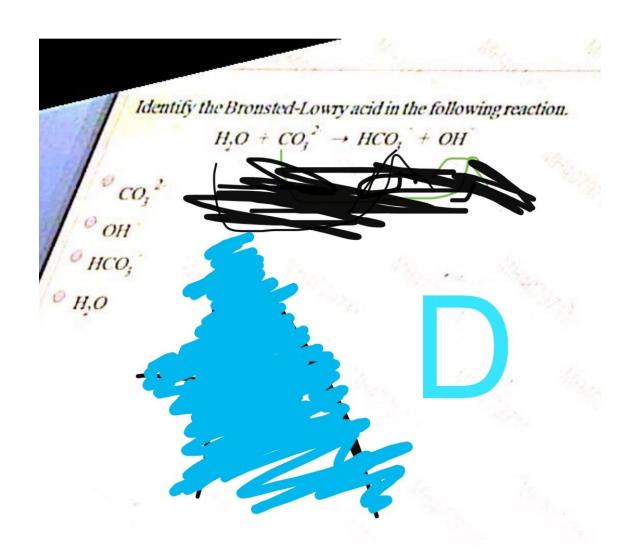
### Question No. 38

Provide the name of the compound below.



- 2,3-dimethyl-1-hexene
- 4.5-dimethyl-6-hexene
- 4,5-dimethyl-5-hexene
- 2,3-dimethyl-2-hexene

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# Total questions in exam: 40 | Answered: 13

### Question No. 17

What is the oxidation number of sulfur in SO<sub>3</sub><sup>2</sup>?

- 0 +2
- . . . . . . . . . . . . .
- 0 +4
- 0 46

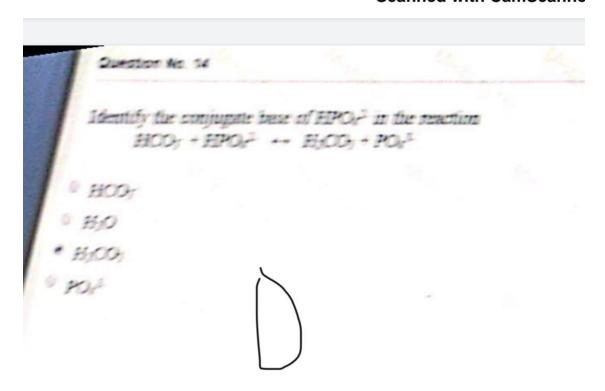
### Question No. 13

Refer to the reaction shown below. Removing sulfur dioxide as it is formed will  $2H_2S(g) + 3O_2(g) \rightleftharpoons 2SO_2(g) + 2H_2O(g)$ 

- shift the reaction to the left
- shift the reaction to the right
- nave no effect
- cannot be determined, since the temperature is unknown

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Question No. 16

The name of the chemical compound CuOH is \_\_\_\_\_

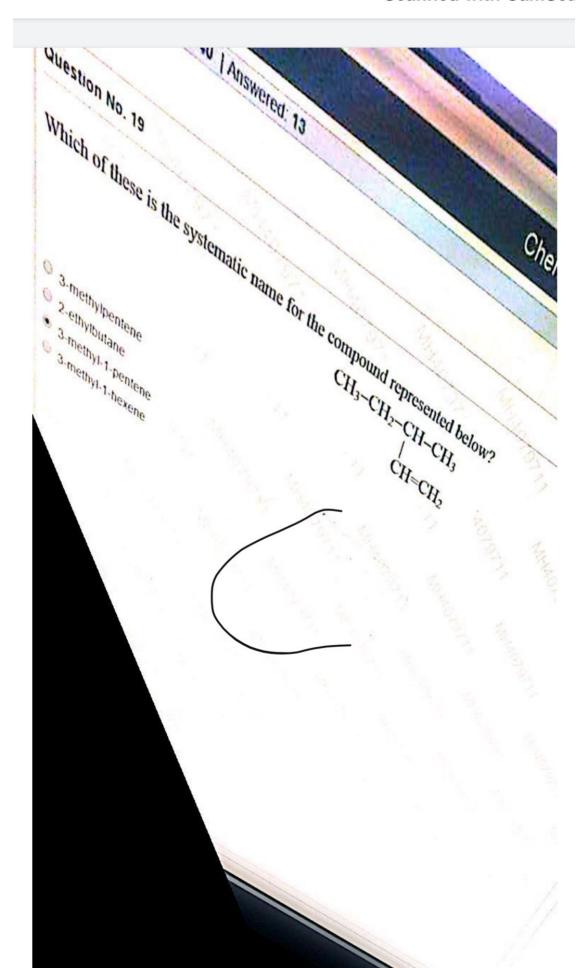
Copper hydroxide

copper(II) hydroxide

copper(III) hydroxide

copper(III) hydroxide

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Question No. 10	60	42.	1	
The molecular formula for the hy	vdrocarbon "butan	ne" is		
C <sub>5</sub> H <sub>12</sub> C <sub>6</sub> H <sub>14</sub> C <sub>4</sub> H <sub>10</sub>	<u> </u>			
H10	By	30 m		
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			-	



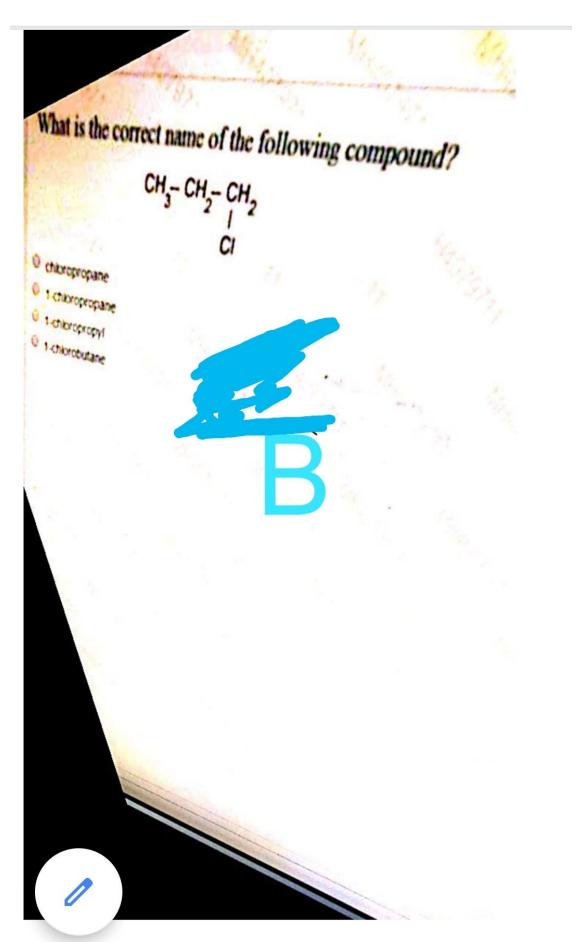


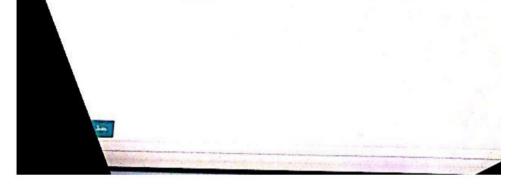




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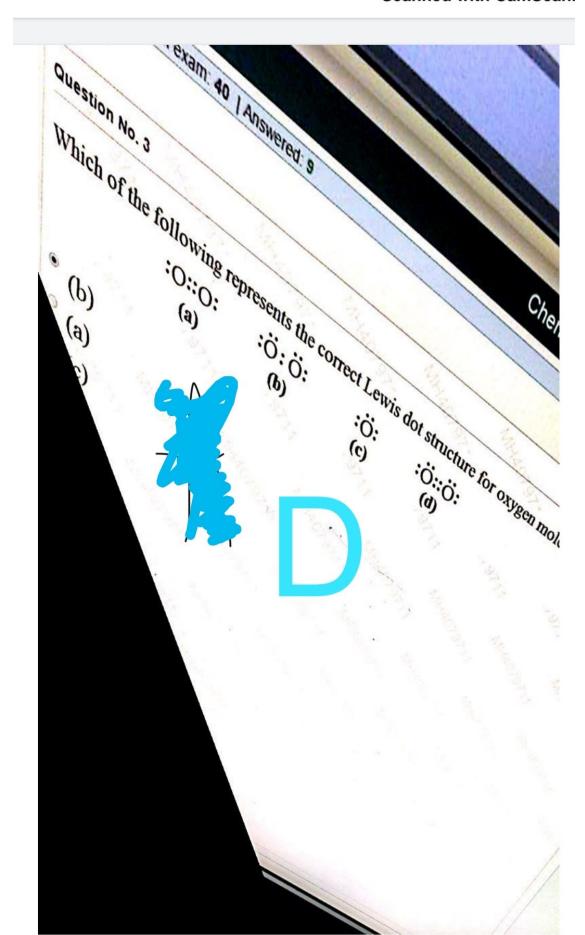


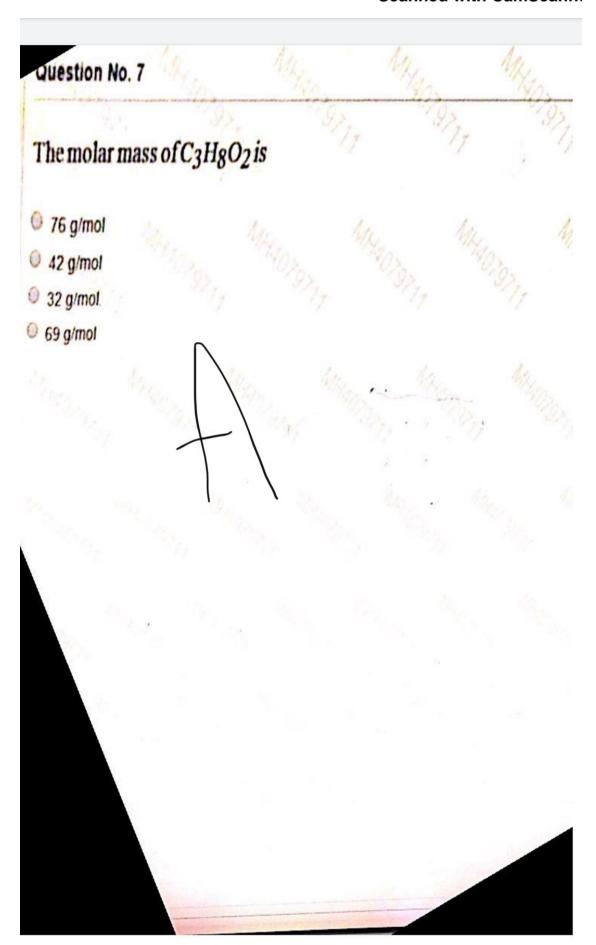




# Scanned with Cams Question No. 11 If a drain cleaning solution has a pH = 13, this solution is\_ weakly acidic strongly acidic strongly basic weakly basic

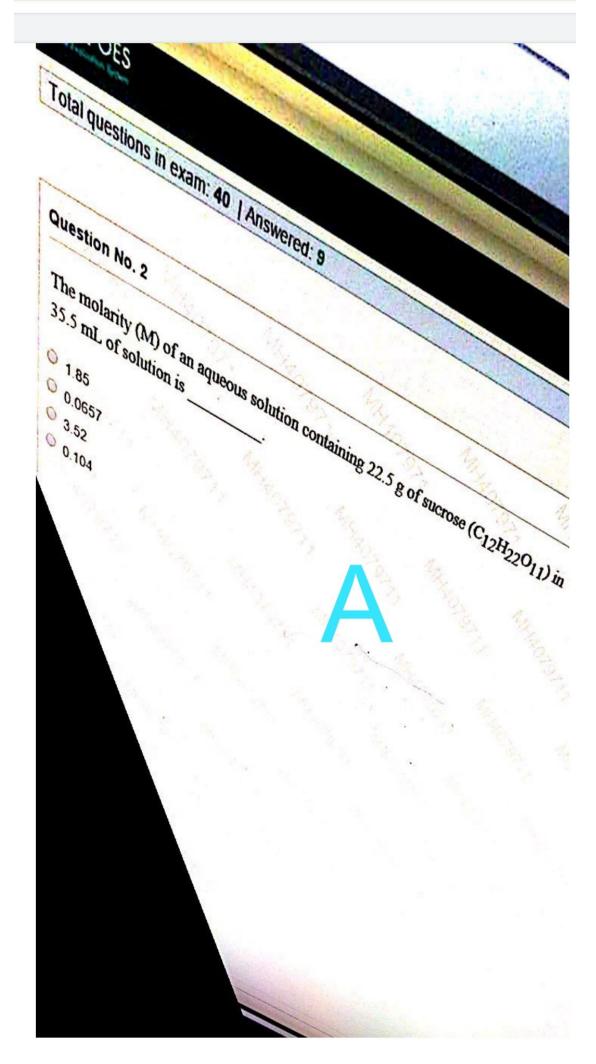






Question No. 8	de la constantina	1940	Myon
To which family does t	he following o	organic compo	und belong?
	C	)	
	// CH₃-CH₂-C-	-СН₂-СН₃	4
() alsohal		477	137
alcohol alcohol			
aldehyde kelone	1	h Mr.	44
ether		4	1
	3	A STATE OF	9
	100		
	And the second		
	5		
		5	
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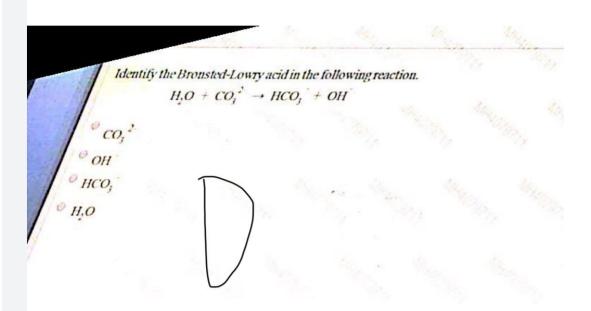
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# Question No. 5

Identify an ionic bond

- Electrons are shared.
- O Protons are lost
- Electrons are transferred.
- Protons are gained

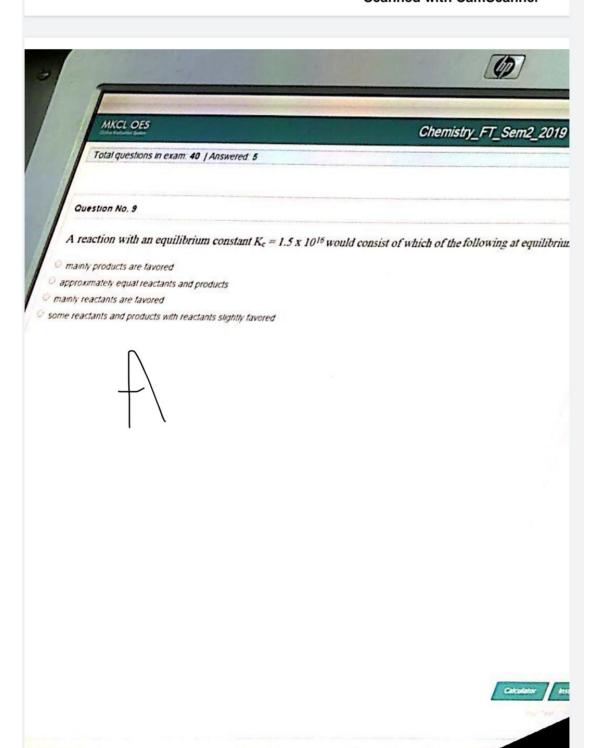




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# Total questions in exam: 40 | Answered: 9

# Question No. 4

Two mole of any substance contains \_\_\_\_\_ particles?

- 12.044 x 10<sup>24</sup>
- 6.022 x 10 <sup>23</sup>
- 1.20 x 10 <sup>24</sup>
- 3.011 x 10<sup>24</sup>



### **Scanned with Cam**

If a rain-water sample has a pH = 5.8, this sample is \_\_\_\_

- weakly acidic
- strongly acidic
- weakly basic
- neutral

# Total questions in exam: 40 | Answered: 9

# Question No. 1

When a system is at chemical equilibrium

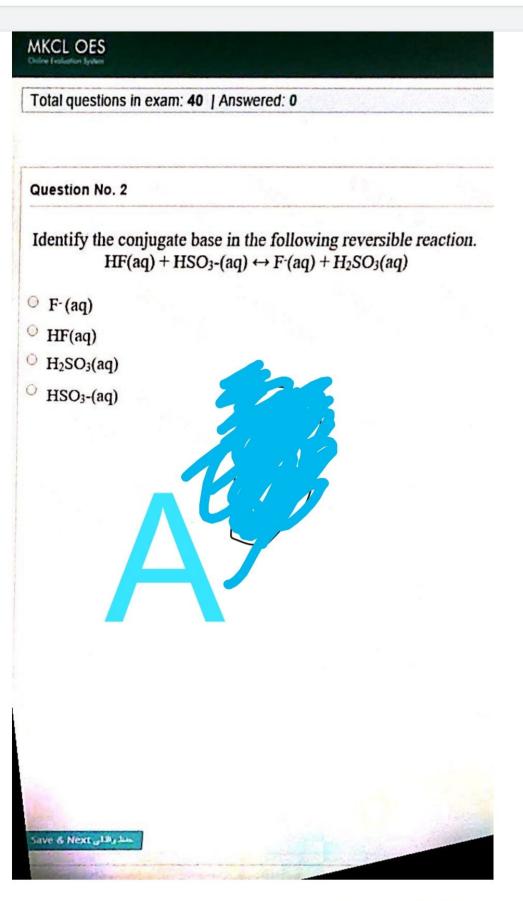
- the rate of the forward reaction is small compared to the reverse.
- the rate of the forward reaction is equal to the rate of the reverse.
- the rate of the reverse reaction is small compared to forward. the amounts of product and reactant are exactly equal.

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# The compound below is an CH3 CH3—C—NH2 H acid ester amine amide





rain-water sample has a pH = 5.8, this sample is \_\_\_\_\_\_.