The correct name for the acid HOLIS _

acid

- hydrogen chloride
- hydrogen chlorate
- hydrogen chlorite
- hydrochloric

R.





Carbon monoxide is considered

an atomic element
a molecular compound
a molecular element
an ionic compound



MKCL OES





Use the periodic table to answer the following question: The formula CCL has a molar mass of _____g/mol.

10





Total questions in exam: 25 | Answered: 5

Question No. 8

```
Which one of the following is oxidized in the following equation:

2Al(s) + 3H₂SO4(aq) → Al₂(SO4)3(aq) + 3H₂(g)

Al₂(SO4)3(aq)

H₂(g)
```

Al(s)

H2SO4(aq)





tal questions in exam: 25 | Answered: 0

uestion No. 22

The oxidation number of iodine in KIO4 is





Question No. 13 grams of CaO. 5.32 moles of CaO contains 0 245 0 532 0 123 0 298 grams of CaO = moles x molar mass 5.32moles x (40+16)g/mol = 298g

Question No. 14 How many molecules are in 237 g (about a cup) of water? 0 13.1 06.02×10^{25} ○ 7.93 × 10²⁴ 0 4267

mol = grams / molar mass molar mass of H2O = 18g/mol Number of Molecules = moles x 6.022 x10^23

Save & Next , 13, 14

Question No. 5

01

0 3

0 5

0 2

When the following equation is balanced, the coefficient of H₂S is FeCl₃ (aq) + H₂S (g) \rightarrow Fe₂S₃ (s) + HCl (aq)

hit - - -



В





Question No. 16 Write the name for FeS



Guestion No. 23 Motarity is defined an

moles of solute per liters of solution
 moles of solute per liters of solution
 grams of solute per moles of solution
 grams of solute per moles of solution











Chemistry_Quiz2_Sem1_2019

Total questions in exam: 25 | Answered: 1

Question No. 2

In which of these substances are the atoms held together by polar covalent bonding?

- ClF
- ◎ S8
- CsCl
- O SrCl₂

Chemis MKCL OES Question No. 6 What is the maximum number of covalent bonds that a carbon atom can form? 04 0 2 00 01 3 -A 2







Which of the following symbols indicates an aqueous

(s)
(g)
(l)
(aq)





The oxidation number of N in NaNO3 is





Total questions in exam: 25 | Answered: 0

Question No. 22

Solid aluminum and gaseous oxygen react in a combination reaction to produce Al_2O_3 4Al (s) + 3 O_2 (g) \rightarrow 2 Al_2O_3 (s) The maximum amount of Al_2O_3 that can be produced from 2.5 g of Al and 2.5 g of O_2 is ______g.

4.7

0 7.4

5.3

9.4

لأنو يبغى أقصى حد فحيكون الناتج اللي يطلع من الlimited

MKCL OES

Total questions in exam: 25 | Answered: 1

Question No. 2

What is the reducing agent in the following reaction? $Mg + NiO_2 + 2H_2O \rightarrow Mg(OH)_2 + Ni(OH)_2$

O Ni Mg

H







Chemis

Atuminum with a molar mass of 27.0
Silver with a molar mass of 108.0
Manganese with a molar mass of 55.0

MIKCL OES

Phosphorous with a molar mass of 31.0

Molar mass = grams / moles 54g / 2mol = 27g/mol

gives a nonelectrolyte aqueous solution.

NaOH
 NaCl
 C₁₂H₂₂O₁₁
 HI

С

Sucrose is nonelectrolyte



Question No. 5 When the following equation is balanced, the coefficients are $AI(NO_3)_3 + Na_2S \rightarrow AI_2S_3 + NaNO_3$ @ 2, 3, 1, 6 0 2, 3, 2, 3 0 4, 6, 3, 2 0 2, 1, 3, 2

The name of the chemical compound Cu(NO₃)₂ is:

С

- o copper(II) nitrite
- copper nitrate
- copper(II) nitrate
- copper(I) nitrate

In any balanced chemical equation, the number of atoms of each element on both sides of the equation is

@ always the same

O doubled

Increased by one

decreased by one



A strong electrolyte is a substance that

in aqueous solutions.

partially ionizes
completely ionizes
does not ionize
reacts



MKCL OES

Which of the following substances can make an aqueous solution that conduct electricity?

Chemistry

- © co
- Mgl₂
- CH3OCH3
- C₁₂H₂₂O₁₁



The molarity (M) of an aqueous solution containing 22.5 g of sucrose (C₁₂H₂₂O₁₁) in 35.5 mL of solution is

-

- 0.0657
- 3.52
- 0 1.85
- 0.104



```
Choose the best classification of the reaction represented by the following equation:

\frac{2Fe^{3+}(aq) + Fe(s) \rightarrow 3Fe^{2+}(aq)}{2Fe^{3+}(aq) + Fe(s) \rightarrow 3Fe^{2+}(aq)}
```

- Oxidation-reduction
- combustion
- precipitation -
- acid-base





Chemistry_Quiz2_Sem1_2019

Total questions in exam: 25 | Answered: 0

Question No. 17

The combustion of ammonia in the presence of excess oxygen yields NO2 and H2O:

 $4 \text{ NH}_3(g) + 7 \text{ O}_2(g) \rightarrow 4 \text{ NO}_2(g) + 6 \text{ H}_2\text{O}(g)$ The combustion of 43.9 g of ammonia produces _____ g of NO₂.

119
43.9
178
2.58



٨.



Chemistry_(**Question No. 9** Which of the following is the electron dot formula (Lewis structure) for an atom of strontium? (d) (c) · Sr: (d) · Sr:) (b) (a) (c) B: (b) Sr in 2A group (has 2 valance electrons) Save & Next , Lal, Compaq LE1711


Mg + O2 = 2 MgO

A covalent bond is best described as

- It the sharing of electrons between alorns.
- a bond between a metal and a nonmetal.
- a bond between a metal and a polyatomic ion.
- the transfer of electrons.



Which of the following is the electron dot formula (Lewis structure) for an atom of or spin atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot formula (Lewis structure) for an atom of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot for a tow of the following is the electron dot following is the A : (d)

Oxygen in 6A group O has 6 valance electrons

15



KCLOS

Question No. 9

oxygen?

0 (0)

0 (3)

0 (0)

0 (0)

uestion No. 15 The name of the Cu²⁺ ion is copper copper(III) copper(II) copper(l)



MKCL OES Question No. 21 In which species does sulfur have the highest oxidation number? ◎ SO₂ ◎ K₂SO₄ O H2S O H2SO3





What is the term for a bond in which a pair of electrons is shared equally?

- electrovalent bond
- polar covalent bond
- Ionic bond
- nonpolar covalent bond



Total questions in exam: 25 | Answered: 21

Question No. 14

Find out the molecular formula of a compound that has a molar mass of 138.0 g/mol and an empirical formula of NO2.

- N3O6
- NO2
- N2O3
- N2O4

Select the element whose Lewis dot symbol is correct.

He*
•Fr•
Te:
•Ra•

Group number determine the valance electrons Ra in G 2A has 2 Valance electrons



141 C **Question No. 15** What is the formula for the ionic compound formed by magnesium and iodine? MgI₃ Mg₂I MgI₂ MgI С



1010 **Question No. 6** Ionic bonding is formed as a result of Sharing of electrons Iss of electrons only. gain of electrons only. • transfer of electrons.





Which of the following is a molecular element?

-

Aluminum
Helium
Oxygen
Iron



The ionic compound that forms between potassium and oxygen is ____



Question No. 23

Which one of the following pairs atoms can form a polar covalent bond?





Ca and I H and Br S and S H and H

Which of the following species has an oxidation number of zero?

O₂
Mg⁺²
Al⁺³
Na⁺¹



A hydronium ion is a hydrogen ion bonded to which of the following?

- Involven atom
- water molecule
- hydroxide ion
- hydrogen molecule



Total questions in exam: 25 | Answered: 9

Question No. 23

Based on Lewis dot structure, the number of shared electrons in N2 molecule is









1010 **Question No. 19** The name of the chemical compound Al₂(SO₄)₃ is: aluminum sulfite aluminum(III) sulfate aluminum sulfate aluminum(III) sulfite С





The name of the chemical compound Cu₂O is:

Copper(I) oxide
Copper (III) oxide
Copper oxide
Copper(II) oxide



The amount of energy required to break one mole of a bond In a compound is called _____

 \square

- thermal energy
 kinetic energy
- potential energy
- O bond energy



Total questions in exam: 25 | Answered: 17

Question No. 16

In the reaction:

 $Cu_{(3)} + 2Ag_{(aq)}^{+} \rightarrow Cu_{(aq)}^{2} + 2Ag_{(s)}^{(aq)}$ $Cu_{(3)}$ is the oxidizing agent and $Ag_{(aq)}^{+}$ is oxidized. $Cu_{(3)}$ is the reducing agent and $Ag_{(aq)}^{+}$ is reduced. $Ag_{(aq)}^{+}$ is oxidizing agent and $Cu_{(3)}$ is reduced. $Ag_{(aq)}^{+}$ is the reducing agent and $Cu_{(3)}$ is reduced.



In the reaction below, what is the theoretical yield in moles for NO when 3 moles of NH₃ react with 3 moles of O₂?



Question No. 1 Which of the following statements about atoms is FALSE? • Atoms compose all matter. • Atoms are the basic building block of nature. • An atom is the smallest identifiable unit of an element. • Atoms is composed from two or more elements.



Total questions in exam: 25 | Answered: 0

Question No. 16

Analysis of an unknown substance showed that it has a high boiling point and is brittle. It is an insulator as a solid but conducts electric melted. Which of the following substances would have those characteristics?

- 0 CO
- ◎ KBr
- () Al
- O HCI



single bond is long and weak

С

Which molecule contains the longest carbon-carbon bond?

NON NO. 23

O F2C=CF2

HC=CH

H3C-CH3

H,C=CH2

States and states

- hydrobromic
- hydrogen bromide
- hydrogen bromine
- hydrogen bromate







copper(II) hydroxide
copper(III) hydroxide
copper(I) hydroxide
copper hydroxide

KCL OES

Question No. 18 The name of the chemical compound CuOH is .



Question No. 20 In an oxidation-reduction reaction, the oxidized substance always shows loss of electrons. Shows gain of electrons. shows gain of neutrons. gives up hydrogen atoms.



MKGL OLO Question No. 21 Identify the reducing agent in the chemical reaction $5Fe^{2+}(aq) + MnO_{4}(aq) + 8H^{+}(aq) \rightarrow 5Fe^{3+}(aq) + Mn^{2+}(aq) + 4H_2O(1).$ Mn²⁺ Fe²⁺ MnO4 ● Fe³⁺



What is the molecular formula of a compound that has a molar mass of 300 g/mol and its empirical formula is CH₂O?

- C₂H₄O₂
- C₄H₈O₄
- C₃H₆O₃
- C10H20O10



D



В






D

mass % of AI = molar mass of AL / total molar mass x100



C

- He - H

لو كتب لك في السؤال shared اختار الكربون



A triple covalent bond contains

4 pairs
2 pairs
1 pair
3 pairs



of electrons.



which family of the periodic table is most likely to form diatomic molecules?

- Group 5A
- Group 7A
- Group 6A
- Group 8A



Short bonds are usually while the long bonds are

- Strong, weak
- Weak, weak
- Weak, strong
- Strong, strong





takes on oxygen atoms.
gives up hydrogen atoms.
shows loss of electrons.
shows gain of electrons.

WWESHOR NO. 8

For a given reaction

 $V_2O_5(s) + 5 Ca(l) \rightarrow 2 V(l) + 5 CaO(s)$

When 10 moles of V_2O_5 are mixed with 10 moles of Ca, which is the limiting reactant according to the above equation?

- ${\small \bigcirc \ } V_2O_5$
- ◎ CaO
- Ca
- v



What is the oxidation number of sulfur in SO_3^{2-} ?









Question No. 20	gives an aqueous solution that does not conduct electricity.		
when descrived in water, a	gives an aqueous solution mar does not a		
weak base			
strong base			
strong acid			
sugar			

D



How many covalent bonds will an oxygen atom normally make?





The ability of an alors to affract the shared electrons in a covalent bond is called

- Bond energy
- @ electronegativity

Charaction No. 21

- Donding ability
- polarity







The substance that causes the reduction of another substance is called:

- reducing agent
- oxidizing agent
- Cathode
- anode





<8305		
	A	



Chemistry_Quiz2_Sem1_2019



Question No. 10

What is the percent yield for a reaction if its theoretical yield is 144 g and its actual yield is 46 g?

53%
22%
60%
32%





Which of the following compounds gives a strong electrolyte aqueous solution?

• HI

• NH3

- ◎ C₆H₁₂O₆
- CH₃COOH

A HI is strong acid

مطرقلی Save & Next



Which of the following is a polyatomic ion?

-

Br¹
S²
NO₃¹
Na¹⁺



Which one of the following elements forms two or more ions with different charges?

A

• Fe

O K

00

• F

(s. s.)





strong electrolyte, weak acid
weak electrolyte, weak acid
strong electrolyte, strong acid
weak electrolyte, strong acid



agent in the following red $Zn(s) + Cu^{2+}(aq) \rightarrow Zn^{2+}(aq) + Cu(s)$ O Cu2+ • Zn2+ O Zn O Cu

				(dalahista)		
Question No. 13	Neger Star	and the second		Male in the	A. Margan	Auto Line
What is the final molar final volume of 0.2 L?	ity of HNO3 solu	tion, if 300 m	Lof 2M HNO	was diluted to	a	
3.0 M				(MALLAN)		
5.0 M	\wedge		and the state			
4.0 M 6.0 M						
	1-+-					





Chemistry_Quiz2_Sem1_2019

Total questions in exam: 25 | Answered: 0

Question No. 2



When 22.0 g NaCl and 21.0 g H2SO4 are mixed and react according to the equation below, which is the limiting reagent?

 $2NaCl + H_2SO_4 \rightarrow Na_2SO_4 + 2HCl$

· · · · · · · ·

H₂SO₄



In the Lewis structure for CH4, how many unshared pairs of electrons will carbon have? 03 0 1 A







Percents = molar mass of element / total molar mass x 100



The name of the Cu+ ion is

copper(III)
copper(II)
copper
copper(I)











Question No. 5

sonic bonding is formed as a result of _____

G sharing of electrons
G gain of electrons only.
C transfer of electrons.
C loss of electrons only.





In this reaction, what is the substance oxidized? $Zn + 2 HC1 \rightarrow ZnCl_2 + H_2$

- chlorinehydrogen
- zinc chloride
- zinc



The substance that causes the oxidation of another substance is called:



لأنه مفروض اختار اختزال و مو موجود بالخياري فالعامل المؤكسد هو نفسه اللي صارله اختزال
Total questions in exam: 25 | Answered: 10

- 13

What is me term for the shared valence electrons in a covalent molecule?

Ione pair electrons
nonbonding electro
core ciecuons

bonding electrons



What is the molarity of a solution if 618 g of NaBr dissolved to make 1.5 L of that

2.0 M
8.0 M
6.0 M
4.0 M

Molarity = moles / volume (L) moles of NaBr = 618g / 103g/mol (103 is molar mass) moles of NaBr = 6 Molarity = 6mol / 1.5L = 4M



-----Question No. 17 The most correct name for the compound SCl_g is: Sulfur nonachloride Sulfur octachloride monosultur octachloride suttur chloride B octa = 8



0.308 14

0,879.14

0.57614

068714

Question No. 23

What is the molarity of a solution made by day

MO 25 DD B OT N

E

0

mol = grams / molar mass molarity = moles / volume (L)





In which of these substances are the atoms held together by polar covalent bonding?

MH3753Add

MH37534

MIH3753140

O SrCl2 CsC1 3740 CIF

S8

اذا قالك polar معناتها الجواب مركب تساهمي واذا قالك nonplar معناتها بيكون H2,O2,N2,F2,Cl2,Br2,I2 معناتها بيكون H2,O2,N2,F2,Cl2,Br2,I2

Which of the following is a polyatomic jon?





Chemistry_Quiz2_Sem1_2018

Total questions in exam: 25 | Answered: 25

Question No. 22

MKCL OES

Analysis of an unknown substance showed that it has a high boiling point and is brittle. It is an insulator as a solid but conducts electricity when melted. Which of the following substances would have those characteristics?

KBr
CO
HCI
AI

A

High boiling.
 Insulator as a solid.
 Conducts electricity.
 those properties for lonic compound.





Chemistry_Quiz2_

Total questions in exam: 25 | Answered: 0

Question No. 12

MKCL OES

In a solution, the solute is ______

the substance present in the greatest amount

- always water
- always a solid
- the substance present in the smallest amount



MKEL GES Question No. 11 What is the mass% of carbon in (C2H6O2)? 0 60% 0 7 7 4% 0 38.7% 0 20.6% С Mass %of C = Molar mass of C / total molar mass x 100 total molar mass= (12x2) + (1x6) + (16x2) = 62g/molmass % of C = 24 / 62 x 100 = 38.7%



Q11-IKCL OES How many moles of H₂O could be produced when 3 moles of C₂H₆O completely react Question No. 25 with oxygen gas according to the reaction? $C_2H_6O + 3 O_2 \rightarrow 2 CO_2 + 3 H_2O$ 3 mol Iom e 🔘 12 mol 6 mol



The name of the chemical compound NH4SO4 is:

ammonium sulfate
ammonium(I) sulfate
ammonium(II) sulfite
ammonium sulfite

The most correct name for the compound P4S10 is:

- tetraphosphorus octasulfide
- tetraphosphorus decasulfide
- tetraphosphorus nonasulfide
- triphosphorus decasulfide

B

Tetra = 4Deca = 10



MKCL OES Question No. 7 The type of bond in L₂ is a (an) bond Metallic Polar covalent Nonpolar covalent O Ionic





MKCL OES



Question No. 20

In the chemical reaction below: what is oxidized and what is reduced in the following reaction $2AI + 3Br_2 \rightarrow 2AIBr_1$

- Al is reduced and Br₂ is oxidized.
- AlBr₃ is reduced and Al is oxidized.
- Al is oxidized and Br₂ is reduced.
- AlBr₃ is reduced and Br₂ is oxidized.



The most correct name for the compound NI3 is:

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

What is the oxidation number of nitrogen in NO_3^{-1} ? 00 0 -5) -3 0 +5 total charge = -1O = -2, O3 = -6

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-6 + N = -1N = +5



What is the molar mass of copper(II) sulfate, CuSO4? Question No. 11 16.00 g/mol @ 111.6 g/mol 159.6 g/mol @ 63.60 g/mol C

Molar mass = (Cu mm) + (S mm) + (O4 mm)molar mass = 63.5 + 32 + (16x4) = 159.6

How many moles of RbCl are there in 71 g of RbCl?

1.43 mol
0.67 mol
5.32 mol

@ 0.59 mol

D moles = grams / molar mass





A double covalent bond contains ______shared electrone.

- © one © two © three
- -----
- 💭 TOM



MKCL OES

The name of the chemical compound Cu_2CO_3 is:

- copper(III) carbonate
- copper carbonate
- copper(II) carbonate
- copper(I) carbonate



Which of the following is the electron dot formula (Lewis structure) for an atom of nitrogen?







The number of CO₂ molecules that are produced from burning of 57.11 g of C₈H₁₈ (Molar mass = 114.22 g/mol) according to the following equation: $2 C_8 H_{18(1)} + 25 O_{2(g)} \rightarrow 16 CO_{2(g)} + 18 H_2O_{(g)}$

- 2.41 x 10²⁴ molecules.
- 6.02 x 10²³ molecules.
- 8 molecules.
- 16 molecules.

Quey" -- w.

A strong electrolyte is a substance that

partially konizes
completely konizes
does not kon
reacts



В

atton

000

Strong acid

Che

Question No. 7

MKCL OES

S The second Which of the following statements is FALSE regarding an ionic bond?

Metal atoms lose electrons and nonmetal atoms gain electrons.

- Breaking an ionic bond between two ions requires energy.
- The ionic bond is formed between two nonmetal atoms.
- An ionic bond is the attraction between a metal ion and a nonmetal ion.



A ROW WALL AND COLORING ASSAULTS IN COLORING SOLUTION COLORING COLORINA COLORINA COLORINA COLORINA COL Molarity = mol / volume (L)

Chemistry Quizz Sem

Question No. 22

0.34

3.5 14

2.51

1.1514











A double covalent bond contains



- 3 pairs
- 4 pairs
- 2 pairs
- 1 pair



Total questions in exam: 25 | Answered: 0

Question No. 21

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



Total questions in exam: 25 | Answered: 2

Question No. 1

MKCL OES

Which of the following gives the balanced equation for this reaction? Na₃PO₄ + Ca(NO₃)₂ \rightarrow Ca₃(PO₄)₂ + NaNO₃

Chemistry_Quiz2_Sem1_

- ◎ Na₃PO₄ + 2Ca(NO₃)₂ \rightarrow 2Ca₃(PO₄)₂ + NaNO₃
- ◎ $2Na_3PO_4 + Ca(NO_3)_2 \rightarrow Ca_3(PO_4)_2 + 6NaNO_3$
- ◎ Na₃PO₄ + Ca(NO₃)₂ → Ca₃(PO₄)₂ + 3NaNO₃
- ◎ $2Na_3PO_4 + 3Ca(NO_3)_2 \rightarrow Ca_3(PO_4)_2 + 6NaNO_3$





Question No. 12 Which one of the following contains 92.3% carbon by mass? • CO2 ○ CH4 ⊖ CH3F

C

Molar mass of C2H2 = (12x2) + (1x2) = 26percent of C= (molar mass of C / total molar mass) x 100 percent of C = $(24/26) \times 100 = 92.3\%$





NO3 = -1

Save & Next Jabates

