

الأجوبة النموذجية

الدور الاول (1)

المتميزين

— 2019 م —

الكيمياء

— الثالث المتوسط —





Note: Answer (five questions) only.

Q1/A/ if atomic number of an element is (6): (10 M.)

1. Write its electrons configuration.
2. How many secondary energy level Filled with electrons.
3. What is the number of single electrons.
4. Write Lewis Symbol for this atom.
5. Find out Period and group number .

B/ choose the correct answer ? (Do two only) : (10 M.)

1. Sodium is preserved in liquid with which it does not react like (kerosene , Ethanol , Nitric acid) .
2. Which color differs chlorine gas from other gases (Red , green , greenish yellow) .
3. Which one of the following percentage of nitrogen in earth's atmosphere (21% , 78% , 50%) .

Q2/ A/ Explain the Reason of followings (choose three only): (12 M.)

1. Elements of group IIA are called (Alkaline earth metals)
2. White phosphorous is more active than red phosphorous under normal temperatures .
3. Sulfuric acid used in the production of other acids such as nitric and hydrochloric acids .
4. Sugar in the hot liquid dissolves Faster than that in the cold liquid .

B/ How are Aluminum ions tested in solutions of Aluminum compounds explain and write the chemical equation ? (8 M.)

Q3/ A/ write briefly about : (choose three only) (12 M.)

Aufbau principle , solubility , silicones , chemical luminance

B/ complete the following statements : (choose two only) (8 M.)

1. The Top of the matchsticks is Covered by friction material like
2.of all other elements has the greatest electronegativity is given number (4) as a measure for its electro negativity.
3. Sulfur is extracted freely in the form of underground deposits by usingprocess.

Q4/A/ How can be produced Ethylene gas in laboratory draw shape of equipment and write the Reaction : (12 M.)

B/ Mark the following Sentence as true (T) or false (F) after that correct the False sentence: (8 M.)
(Choose two only)

1. Ionization Energy the amount of energy required to Remove one electron from the outer energy level of a gaseous atom .
2. Duralumin Alloy consist of small percentage of Aluminum and a small amount Ratio of copper and magnesium.
3. Acetylene dose not React with the Red bromine water and not remove its color .

Q5/A/ Calculate the mass percentage of methyl Alcohol in a Solution containing (26.5g) of methyl Alcohol and (173.5ml) of water and assume that density of water (1 g/ml). (10 M.)

B/ Answer the following:

1. Write uses water glass (6 M.)
2. What is the difference between pure salt (NaCl) and impure (NaCl) (4 M.)

Q6/A/write the following Reaction: (Choose two only) (10 M.)

- 1) $H_2S + CuSO_4 \longrightarrow$
- 2) $NH_3 + O_2 \longrightarrow$
- 3) $Fe + HCl \longrightarrow$

B/ Answer the following: (10 M.)

1. Write the physical properties for silicon ?
2. What is the common property between the locations of the following elements in the periodic table ?
(^{15}P , ^{14}Si)



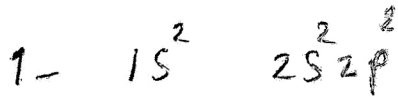
(10M)

جواب سؤال رقم (1) الفرع (A)

الدرجة

رقم الصفحة

2



15

2

2- $1s, 2s$ two secondary energy level filled with electrons

exeris

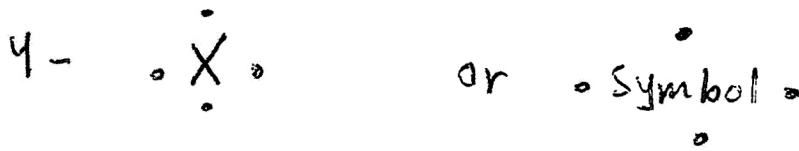
1-10

2

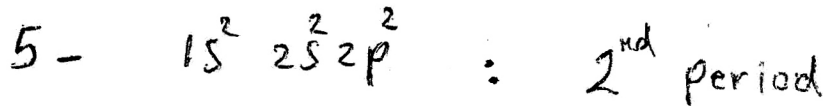


(2) single electrons

2



2



(IVA group)
(or 4A group)

10M



جواب سؤال رقم (1) الفرع (B)

الدرجة

رقم الصفحة

Do two only : (10M)

5

1- Kerosene

28

5

2- greenish yellow

96

5

3- 78 %

73



جواب سؤال رقم (2) الفرع (A) (12M) (choose three only)

الدرجة

رقم الصفحة

4 1- because some of their oxides are known as alkaline earth 28

4 2- because atoms of these two forms of phosphorous differ in the way that they bind. 79

4 3- because of its high boiling point 90

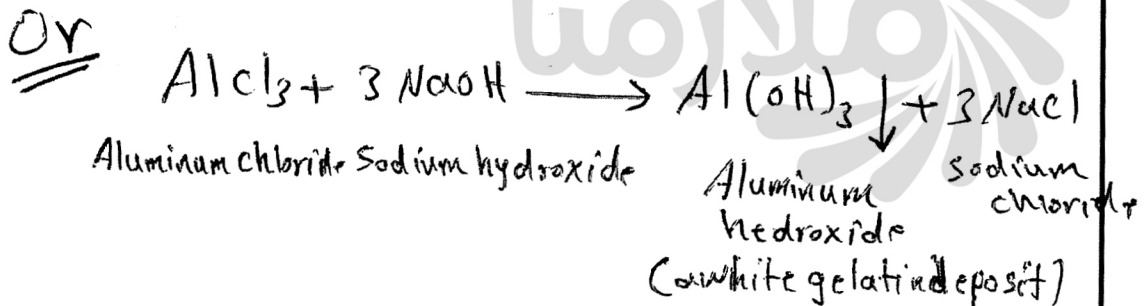
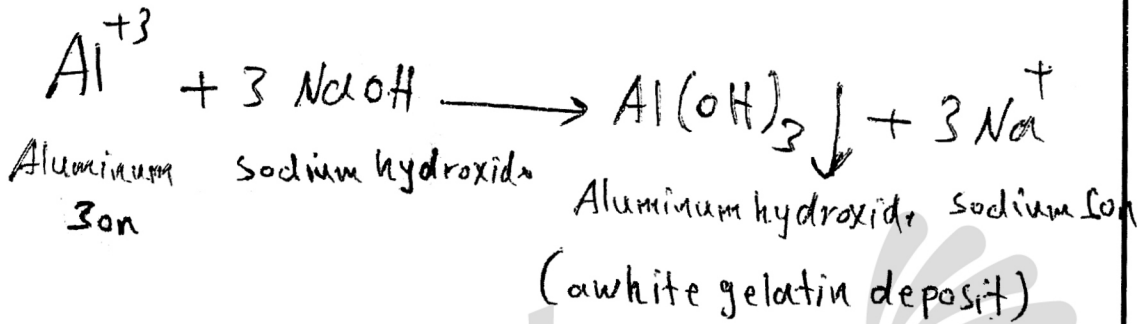
4 4- because the motion energy of the liquid molecules increases 46



Q 2-B

41

Aluminum ion is identified in its compounds by basic solution such as sodium hydroxide or potassium hydroxide whereby they react with aluminium ion Al^{+3} to form a white gelatin deposit which is aluminium hydroxide $Al(OH)_3$ =



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يعطى درجة كامل



الءرءة

(12 M)

رقم الصءة

(Choose three only)

4 // - Aufbau principle : The secondary energy Levels are filled with electrons according to their energy level from the Lowest to the highest. 10

3 // - Solubility : The maximum amount of a solute which can be dissolved in a given amount of a specific solvent to result in a saturated solution at a given temperature 45

4 // - Silicones : They are Organic Compounds of silicon . They aren't poisonous and are very stable along a very wide range of temperature variation. 59

4 // - chemical luminance : The white phosphorus glows in the dark Looking pale green when exposed to damp air. accompanied by garlic-like odor. 79



جواب سؤال رقم (3) الفرع (B)

الدرجة

رقم الصفحة

(8M)

(choose two only)

4	1- glass powder	80
4	2- Fluorine (F)	20
4	3- Frasch.	85



جواب سؤال رقم (4) الفرع (B)

الدرجة

رقم الصفحة

(- choose two) (8M)

1- T

2- F. Duralumin alloy consist a high percentage of aluminum and a small amount Ratio of Copper and magnesium.

3- F. Acetylene react with red bromine water and remove its color



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جواب سؤال رقم (5) الفرع (A)

Q5 A/ (10 M)

الدرجة

رقم الصفحة

2 (
$$\rho_{\text{water}} = \frac{m_2}{V_2}$$

$$1 \text{ g/ml} = \frac{m_2}{173.5 \text{ ml}} \Rightarrow m_2 = 1 \text{ g/ml} \times 173.5 \text{ ml}$$

$$m_2 = 173.5 \text{ g water}$$

50

2 (
$$\text{solution } m_T = m_1 + m_2$$

methyl alcohol water

$$m_T = 26.5 + 173.5$$

$$m_T = 200 \text{ g}$$



2 (
$$\text{Mass percentage methyl alcohol} = \frac{m_1}{m_T} \times 100\%$$

$$= \frac{26.5}{200} \times 100\%$$

$$= 13.25\%$$

4 (

ملاحظة: تختم درج واحد فقط للخاطئ الحسابي

الدرجة

رقم الصفحة

1- (6M)

2

1- providing passive Fire protection for textiles and papers

2

2- used as a cheap adhesive

59

2

3- mixing with cement to can be strengthened buildings.



2- (4M)

pure salt
(NaCl)

impure salt
(NaCl)

2

1- un hydrated salt

1- hydrated salt

or does not absorb water from air

or absorbing water from air

31

2

2- not contain impurities

2- contain impurities of calcium chloride or magnesium chloride or both

الأجوبة النموذجية لمادة (الكيمياء) 24/6/2019

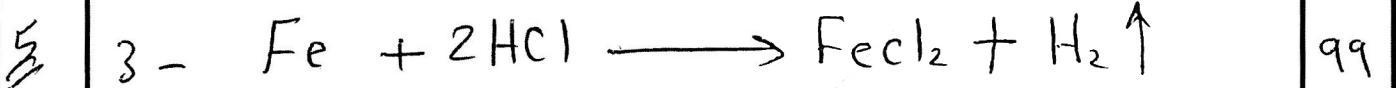
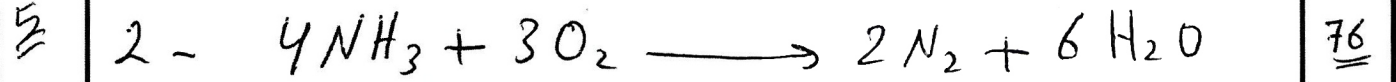
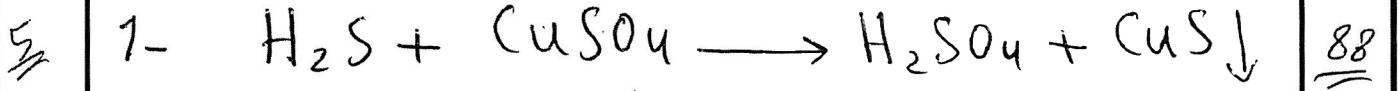
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جواب سؤال رقم (٤) الفرع (A) (10 M)

الدرجة

رقم الصفحة

(choose two only)



ملازمنا



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رقم الصفحة (//)

(10M)

جواب سؤال رقم (6) الفرع (B)

الدرجة

رقم الصفحة

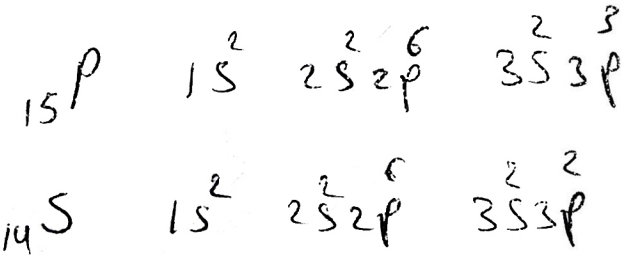
1- (5M)

- 1- Metalloid and very rigid element
- 2- High melting point (1410°C)
- 3- Gray color
- 4- metallic luster
- 5- semi conductor

5M

56

2 -



period = Third
group = V

period = Third
group = IV

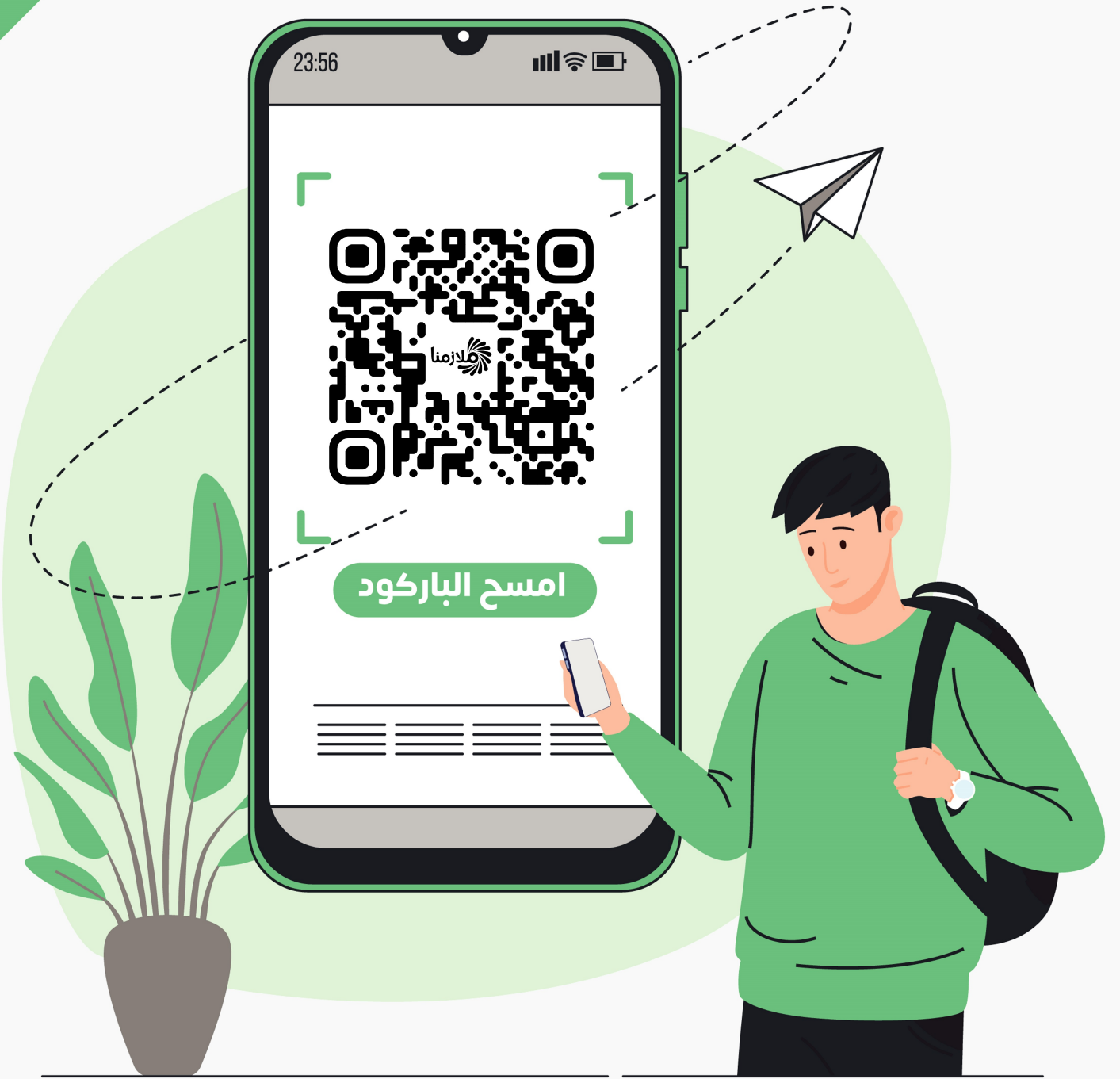
15P & 14S are in the same period

18

Exercis
122



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