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امتحان الفصل الدراسي الأول

End of Term1 Exam



إذا سألك أحدهم ماذا تربد أن تكون في المستقبل ؟ فقل له أربد أن أكون

		رقم الطّالب/ Student No	
		اسم الطّالب/ Student Name	
		اسم المدرسة / School Name	
الشعبة / Class	G10 Advance	الصف والمسار/ Grade & Stream	
	Chemistry	Subject /المادة	

This table is to be filled by markers

يملأ هذا الجدول بدقّة تامّة من قبل لجنة التّقدير.

رقم السّــؤال	الدّرجة Mark		اسم المقدّر 1	اسم المقدّر 2	اسم المراجع
Question No.	رقمـــاً In Figures	کتابـــة In Words	Marker Name 1	Marker Name 2	Reviser Name
Part I			luted.		
Part II					
الدّرجة المستحقّة Allotted Mark					*





صف 10 متقدم **کیمیاء انجلیزی** G10 Adv Chem Eng

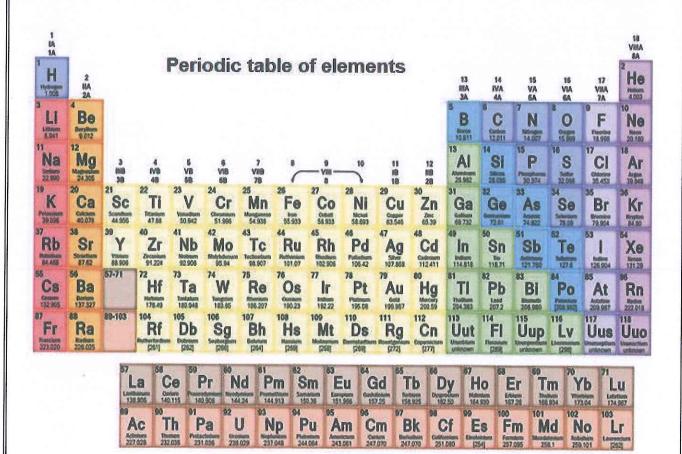




إرشادات

- - · اقرأ الأسئلة جيداً ورتب أفكارك قبل البدء في الإجابة.
 - · اطلب المساعدة من أحد الملاحظين إذا واجهتك أية مشكلة.
 - · راجع إجابتك قبل تسليم كتيب الإجابة ومغادرة قاعة الامتحان.
- تحصل على 5 درجات إضافية في حال أجبت على السؤال الذي تجد بجانبه الملصق

End of Term (1) exam For the academic year 2018/2019



An activity series

METALS العقة امت الأكثر Most مشاملًا Active العمرات البثيوم الروبيديو البوتاسيو Lithlum Rubidium Rubidium Potassium Calcium Sodium Magnesium Atuminum Manganese Zinc JI5J1 الحسود يو م المنسيو م Zinc اشاره الحديد Iron Nickel Tin Lead Copper Silver النبكل النصاب الأقل Least منامًا active Platinum Gold البلاتين اليالو-الجلور الكلور HALOGENS الأكثر Most نشامًا active 2581 Fluorine Chlorine Bromine Loast fodine active للهالث





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\square Choose and circle the correct answer to items (1-15)

1. Which elements are often used to make computer chips and solar cells?

a. metals

b. nonmetals

c. metalloids

d. noble gases

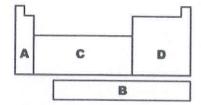
2. Which region is referred to as the f-block on the diagram?

a. A

b. B

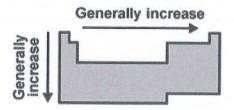
c. C

d. D

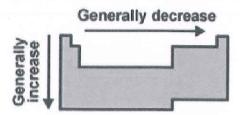


3. Which diagram correctly depicts the trend in electronegativity?

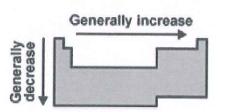
a.



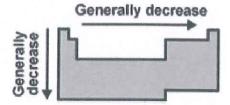
b.



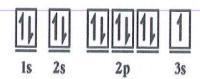
C.



d.



4. Which ion is this atom most likely to form?



- a. Na⁺
- b. Na
- c. Ne
- d. Mg²⁺



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5. An ionic compound results from these two atoms.

What is the correct formula for it?

- X_2Y_5
- b. X_5Y_2
- X_2Y_3
- $d. X_3Y_2$
- 6. Which is a physical property of ionic compounds in their solid state?
 - a. good conductor of electricity
- b. weak attractive forces between ions

c. low boiling point

- d. high melting point
- 7. Which is true of the model of bonding shown in this diagram?



- Metallic atoms are present in a "sea" of negatively charged atoms. a.
- b. Valence electrons can move easily among the metallic nuclei.
- The substance is easy to break. C.
- d. Cations can easily carry heat and electricity from one region to another.
- 8. Which combination of bonds is present in this molecule?



a. 1 sigma bond only

1 sigma bond and 1 pi bond

c. 2 pi bonds

- 2 sigma bonds d.
- 9. How many single covalent bonds can carbon form?



- 1 a.
- b. 2

- 3
- d. 4
- 10. Which exception to the octet rule is shown by this molecule?
 - a. uneven number of valence electrons
- b. Suboctet

c. expanded octet

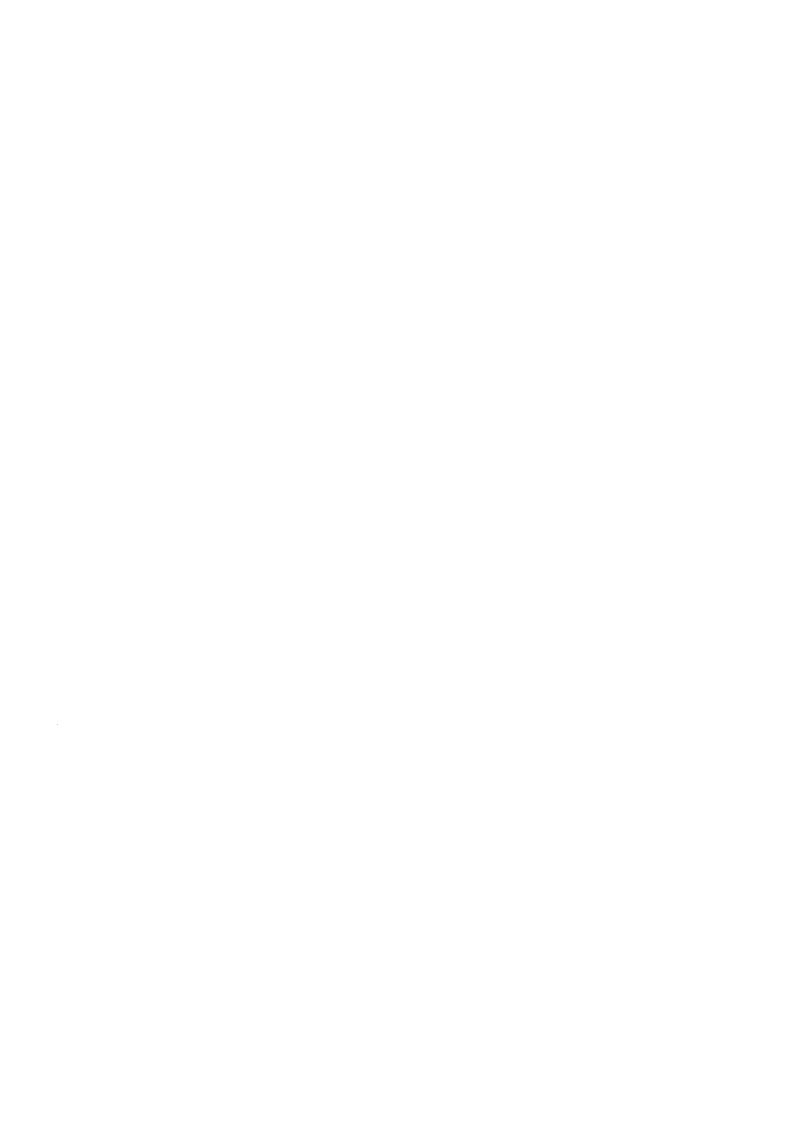
- d. coordinate covalent bond



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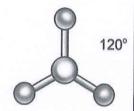




11. Which type of molecular shape is shown by this molecule?

- a. trigonal pyramidal
- c. Bent

- b. tetrahedral
- d. trigonal planar



12. Look at the electronegativity difference in the table.

Which kind of bond is present in the compound OF₂?

44
98

- a. ionic
- c. polar covalent

- b. metallic
- d. nonpolar covalent

13. Which is NOT a sign of a double displacement reaction?

- a. gas may be formed
- c. a precipitate is formed

- b. water may be produced
- d. the coefficients are equal
- 14. Use the activity series shown to predict which reaction will occur.

Fluorine	Most Active
Chlorine	
Bromine	
lodine	Least Active

- a. NaBr + I₂ →
- c. LiF + Cl₂ →

- b. KBr + F₂ —▶
- d. NaCl+I₂ →

15. Which is/ are the product(s) of this chemical reaction?



- a. Fe(OH)₃ + 3NH₄CI
- c. 3NH₄CI + 3FeOH

- b. 3NH₄Fe + Cl₃OH
- d. 3FeCI₃NH₄OH



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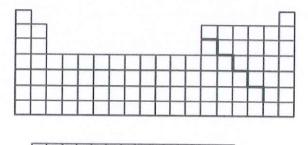


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Part t

16. Label the periodic table with the terms in the bot.





F: noble gases

D:lanthanide series

C: alkali metals

G: halogens

B: element with the highest electronegativity



17. Put the elements in order from smallest to biggest atomic size.

Ne: 1S² 2S²2P⁶

Be: 1S² 2S²

C: 1S² 2S²2P²

N: 1S22S2P3

(smallest) then...... Then...... (biggest)

18. Put the compounds in order from least to highest melting point

(Least) then (highest)

Compound	Lattice
	Energy
	(kJ/mol)
AgCI	910
KI	632
MaO	3795

- Give a scientific explanation for the items (19-21)
- 19. The second ionization energy of sodium is very high as compared to the first ionization energy.
- 20. The lattice energy of MgO is almost four times greater than that of NaF
- 21. A water molecule has a bent shape with a bond angle of 104.5°?



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22. In the equation for the formation of the ionic compound below, what anion and cation will be formed?

$$[Ar]4s^2 + [He]2s^22p^4 \rightarrow+$$
طاقة

(Give your answer in noble gas notation as well as by using the appropriate chemical symbol.)

Anions:

Cations.....

23. Name these compounds:

KOH : NH₄CIO₄:

24. Compare and contrast the two types of bonds.



similar

1.....

Metallic bond

Ionic bond

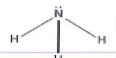
different

1......

25.Complete the table below with names and formulas.

Name		Nitrogen monoxide		Phosphoric acid	
Formula	HNO ₂	*************************	ні		N ₂ O ₄

26.Look at the ammonia (NH₃) molecule. Is it polar? Why?



27. Add the correct coefficients to balance this equation.



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28. Match the symbolic equation in list (A) to the reaction in list (B)

list (A) symbolic equation	list (B) type of chemical reaction
$A + B \rightarrow AB$	single-replacement
$AB \rightarrow A + B$	double-replacement
$A + BX \rightarrow AB + X$	combustion
$AX + BY \rightarrow AY + BX$	Synthesis
	decomposition

- 29. Look at this balanced chemical equation: $CaCl_2(aq) + K_2CO_3(aq) \rightarrow 2KCl(aq) + CaCO_3(s)$
- Write the complete ionic equation
- What are the spectator ions?
- Write the net ionic equation
- 30. Student draws Lewis structure for formaldehyde, CH₂O as shown:



- What is incorrect in the drawing? Explain why?
- Draw the right Lewis structure for CH₂O. list the steps used to draw it.

THE END



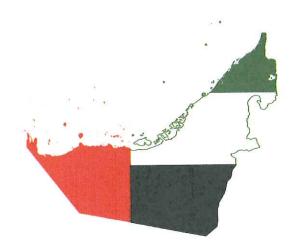


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MOE.G10.ADV.CHEM.E.T1.2018

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