



## CHEMISTRY

### BOOKS - EVERGREEN CHEMISTRY (ENGLISH)

#### PERIODIC PROPERTIES OF ELEMENTS

##### Examples

1. Write the group and period numbers of sodium from its electronic configuration ( $\text{Na} = 11 = 2, 8, 1$ )



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2. Write the group and period numbers of oxygen from its electronic configuration ( $O = 8 = 2, 6$ ).

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3. Lithium is more metallic than beryllium. Give reason.

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## Question

1. The number of electrons present in the valence shell of a halogen is :

A. 1

B. 3

C. 5

D. 7

**Answer:**



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2. Which of the following properties do not match with elements of the halogen family?

A. They have seven electrons in their valence shell.

B. They are highly reactive chemically.

C. They are metallic in nature.

D. They are diatomic in their molecular form.

**Answer:**

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3. Give the number of group and the period, of the element having three shells with three electrons in valence shells.

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4. In group 1 the atomic radius of sodium is greater than the atomic radius of lithium. Give reason.



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5. The size of potassium atom is greater than the size of sodium atom. Give reason.



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6. In halogens (group 17) the atomic radius of chlorine is greater than the atomic radius of fluorine. Give reason.



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7. The atomic size of beryllium is smaller than the atomic size of lithium. Give reason.



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8. The atomic size of lithium is larger than the atomic size of beryllium. Give reason.



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9. Look at the atomic radii of some elements of the second period and answer the questions.



Are these elements arranged on the pattern of a period of the periodic table?



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**10.** Look at the atomic radii of some elements of the second period and answer the questions.



Arrange these elements in the decreasing order of their atomic radii.

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**11.** Look at the atomic radii of some elements of the second period and answer the questions.



Which element has the largest atomic radius and which one has the smallest?

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**12.** Look at the atomic radii of some elements of the second period and answer the questions.



How does the atomic radius change on moving from left to right in the period?

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**13.** The ionisation energy of potassium is lower than that of sodium. Give reason.

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**14.** Give reason - The oxidising power of elements increases from left to right along a period.

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**15.** Fill in the blank from the choices given in brackets :

The energy required to remove an electron from a neutral isolated gaseous atom and convert it into a positively charged gaseous ion is called ..... (electron affinity, ionisation potential, electronegativity)

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16. Which one of the following elements of period 2 has high electron affinity?

A. Lithium

B. Carbon

C. Fluorine

D. Neon

**Answer: C**



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17. Define the following terms:

Ionisation potential



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**18.** Define the following terms:

Electron affinity .



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**19.** Answer the following questions:

The metals of Group 2 from top to bottom are Be, Mg, Ca, Sr, and Ba.

Which one of these elements will form ions most readily and why?



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**20.** The metals of Group 2 in the periodic table from top to bottom are - Be, Mg, Ca, Sr, & Ba

State the common feature in the electronic configuration of all these elements given.

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**21.** An element has an atomic number 16. State the period to which it belongs.

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**22.** An element has an atomic number 16. State the number of valence electrons.

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**23.** Atomic number of element Z is 16.

Is Z a metal or a non metal.



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**24.** There are three elements E, F, G with atomic numbers 19, 8 and 17 respectively.

Classify the elements as metals and non metals.



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**25.** There are three elements E, F, G with atomic numbers 19, 8 and 17 respectively.

Give the molecular formula of the compound formed between E and G and state the type of chemical bond in this compound.



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**26.** Changes in the properties of elements on moving left to right across a period of the periodic table. For each property, choose the letter corresponding to the correct answer from the choices A, B, C and D.



The nonmetallic character of the elements

- A. decreases
- B. increases
- C. remains the same
- D. depends on the period

**Answer: B**



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**27.** Changes in the properties of elements occurs on moving top to bottom in a group of the periodic table. Discuss the trend of electronegativity along the group.

- A. depends on the number of valence electrons
- B. remains the same

C. decreases

D. increases

**Answer: D**



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**28.** Changes in the properties of elements on moving left to right across a period of the periodic table. For each property, choose the letter corresponding to the correct answer from the choices A, B, C and D.



S.No.	Property	In a group (from top to bottom)	In a period (from left to right)
1.	Atomic size	Increases	Decreases
2.	Ionisation energy	Decreases	Increases
3.	Electronegativity	Decreases	Increases (zero for noble gas)
4.	Electron affinity	Decreases	Increases (zero for noble gas)
5.	Metallic character	Increases	Decreases
6.	Electropositive character	Increases	Decreases
7.	Nonmetallic character	Decreases	Increases
8.	Electronegative character	Decreases	Increases
9.	Number of valence shells	Different	Same
10.	Valency	Same	Different

The ionisation potential

A. goes up and down.

B. decreases

C. increases

D. remains the same

**Answer: C**



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29. Changes in the properties of elements on moving left to right across a period of the periodic table. For each property, choose the letter corresponding to the correct answer from the choices A, B, C and D.



The electron affinity of the elements

- A. decreases
- B. increases
- C. remains the same
- D. sometimes increases and sometimes decreases.

**Answer: A**



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**30.** Changes in the properties of elements on moving left to right across a period of the periodic table. Discuss the trend of the electron affinity along the period.

- A. goes up and then down.
- B. decreases and then increases.
- C. increases
- D. decreases

**Answer: C**



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**31.** Arrange the following as per the instructions given in the brackets :

Cs, Na, Li, K, Rb (increasing order of metallic character).

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**32.** Arrange the following as per the instructions given in the brackets :

Mg, Cl, Na, S, Si (decreasing order of atomic size).

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**33.** Arrange the following as per the instructions given in the brackets :

Na, K, Cl, S, Si (increasing order of ionization energy).

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**34.** Arrange the following as per instructions given in the brackets:

Cl, F, Br, I (increasing order of electron affinity)

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**35.** Arrange the following as per the instruction given in the brackets:

He, Ar, Ne (Increasing order of the number of electron shells)

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**36.** Arrange the following as per the instruction given in the brackets:

Na, Li, K (Increasing Ionisation Energy)



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**37.** Arrange the following as per the instruction given in the brackets:

F, Cl, Br (Increasing electronegativity)



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**38.** Arrange the following as per the instruction given in the brackets:

Na, K, Li (Increasing atomic size)

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**39.** An element Z has atomic number 16. Answer the following questions on Z:

State the period and group to which z belongs.

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**40.** An element Z has atomic number 16. Answer the following questions on Z:

Is Z a metal or a non-metal ?

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**41.** An element Z has atomic number 16. Answer the following questions on Z:

State the formula between Z and Hydrogen.

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**42.** An element Z has atomic number 16. Answer the following questions on Z:

What kind of a compound is this?

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## Question Fill In The Blanks From The Choices Given In The Brackets

1. Select the correct answer

Across a period, the ionization potential [increases, decreases, remains same].

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2. Select the correct answer

Down the group, electron affinity [increases, decreases, remains same]

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## Important Assignments

1. The elements of group 1 are called alkali metals. Give reason.



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2. Name two metals each one of which has one electron in its outermost shell.



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3. The elements of group 2 are called alkaline earth metals. Give reason.



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4. The alkaline earth metals are placed in the same group.

Give reason.

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5. Name two elements which show chemical reactions similar to magnesium.

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6. Name the property which all the elements of group 13 have in common.

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7. Name an element which has a total of two shells and there are three electrons in its valence shell.

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8. Name an element which has twice as many electrons in its second shell as in the first shell.

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9. Name an element which has a total of three shells and there are four electrons in its valence shell.

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**10.** The elements of group 16 are called as chalcogens. Give reason.

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**11.** Name all the elements of group 17.

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**12.** Why are the elements of group 17 called halogens?

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**13.** Name the property common to all the elements of the group in which fluorine is placed.

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**14.** Why are the elements of group 18 called noble gases?

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**15.** Name an element that has two shells each one of which is completely filled with electrons.

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**16.** Name two elements with filled outermost shell.

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**17.** Helium is an unreactive gas and neon has very poor reactivity. What do these elements have in common?

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**18.** What is the general name given to the elements of atomic numbers from 89-103?

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## Question For Practice

1. How many groups are there in the modern periodic table?



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2. Write the names and symbols of the first two elements of group 2.



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3. Boron is the first element of group 13. Name the second element of this group.





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4. Name the first and second elements of groups 14.

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5. To which group does nitrogen (at. no. 7) belong in the periodic table?

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6. Name the first two elements of group 17.

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7. Write the number of electrons in the outermost shell of Sodium

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8. Define a period of the modern periodic table of elements.

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9. Name the first and last element in period 2

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**10.** Which one is the fundamental property of an element- atomic number or mass number?

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**11.** Lithium is the first metal of group 1. Name the second and third metals of this group.

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**12.** Match the atomic number 2, 4, 8, 15, and 19 with of the following:

A solid non-metal belonging to the third period.

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**13.** Match the atomic number 2, 4, 8, 15, and 19 with of the following:

A metal of valency 1.

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**14.** Match the atomic number 2, 4, 8, 15, and 19 with of the following:

A gaseous element with valency 2.

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**15.** Match the atomic number 2, 4, 8, 15, and 19 with of the following:

An element belonging to Group 2.

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**16.** Match the atomic number 2, 4, 8, 15 and 19 with the following:

A noble gas.

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**Illustrative Assignments**

1. In group 17 of the periodic table, fluorine is more reactive than chlorine, and chlorine is less reactive than fluorine. Give reasons.

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2. In group 1 (alkali metals), sodium is more reactive than lithium, or lithium is less reactive than sodium. Give reason.

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3. Magnesium is an element of group 2 of the periodic table. It forms compounds such as (i) magnesium oxide,

MgO, (ii) magnesium hydroxide,  $Mg(OH)_2$ , (iii) magnesium sulphate,  $MgSO_4$  and (iv) magnesium chloride,  $MgCl_2$ . Calcium is also an element of group 2.

Write the formulae of calcium oxide, calcium hydroxide, calcium sulphate and calcium chloride.

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4. answer the following questions:

What will be valency of oxygen.

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5. In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The

positions of eight other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following questions:

How many electrons will be in the outermost shell of element F?

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**6.** In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The positions of eight other elements are represented by letters. These letters are not symbols for the elements



concerned.



By reference to the above table, answer the following questions:

What type of bonds can F form?

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7. In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The positions of eight other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following

questions:

Which one is the least reactive metal?

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8. In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The positions of eight other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following questions:

Which one is the most reactive nonmetal?

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9. In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The positions of eight other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following questions:

Name the family of elements represented by E,F,G,R,S.



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10. In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The

positions of eight other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following questions:

what will be the formula of oxide formed with G?

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**11.** In the periodic table given below, lithium, carbon, oxygen and neon are placed in their correct positions. The positions of other elements are represented by letters. These letters are not symbols for the elements concerned.



By reference to the above table, answer the following questions:

Amongst Li, X, Y which atom has the largest size?

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**12.** What is the electronic configuration of the element in the third period which gains one electron to change into an anion?

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**13.** What is the name given to the energy released when an atom in its isolated gaseous state accepts an electron to form an anion?



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**14.** The following table represents the first three periods of the modern periodic table . Study the table and answer the questions that follow

How many electrons are present in the valence shell of the element with the atomic number 18?



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**15.** The following table represents the first three periods of the modern periodic table . Study the table and answer the questions that follow:

Name the element which has the highest ionisation energy.

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**16.** The following table represents the first three periods of the modern periodic table (the atomic number of the element is given below its symbol). Study the table and answer the questions that follow:



Name the element which has the highest ionisation energy.

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17. What type of bonding will be present in the oxide of the element with atomic number 1?

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18. Write the formula of the sulphate of the element with atomic number 13.

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19. Fill in the blanks : The atomic size\_\_ as we move from left to right across the period, because the\_\_\_\_\_ increases but the\_\_\_\_\_ remains the same.

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20. The position of three elements A, B and C in the periodic table are shown below:



State whether C is a metal or nonmetal.

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21. The position of three elements A, B and C in the periodic table are shown below:



State whether C is less or more reactive than A.

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22. The position of three elements A, B and C in the periodic table are shown below:



Will C be smaller or larger in size than A?

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23. The position of three elements A, B and C in the periodic table are shown below:



Which type of ion, cation or anion, will be formed by element C?

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**24.** Amongst the elements of period 3 :

Na Mg Al Si P S Cl Ar

Indicate the atomic numbers of the following type of elements:

Nonmetals

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**25.** Amongst the elements of period 3 :

Na Mg Al Si P S Cl Ar

Indicate the atomic numbers of the following type of elements:

Elements forming negative ions

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**26.** Amongst the elements of period 3 :

Na Mg Al Si P S Cl Ar

Indicate the atomic numbers of the following type of elements:

Metals



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**27.** Amongst the elements of period 3 :

Na Mg Al Si P S Cl Ar

Indicate the atomic numbers of the following type of elements:

Elements forming positive ions



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**28.** A group of elements in the Periodic Table are given below (Boron is the first member of the group and Thallium is the last).

Boron

Aluminium

Gallium

Indium

Thallium

Answer the following questions in relation to the above group of elements :

Which element has the most metallic character ?



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**29.** A group of elements in the Periodic Table are given below (Boron is the first member of the group and Thallium is the last).

Boron

Aluminium

Gallium

Indium

Thallium

Answer the following questions in relation to the above group of elements :

Which element would be expected to have the highest electronegativity ?



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**30.** A group of elements in the Periodic Table are given below (Boron is the first member of the group and Thallium is the last).

Boron

Aluminium

Gallium

Indium

Thallium

Answer the following questions in relation to the above group of elements :

If the electronic configuration of Aluminium is 2, 8, 3, how many electrons are there in the outer shell of Thallium ?



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**31.** A group of elements in the Periodic Table are given below (Boron is the first member of the group and Thallium is the last).

Boron

Aluminium

Gallium

Indium

Thallium

Answer the following questions in relation to the above group of elements :

The atomic number of Boron is 5. Write the chemical formula of the compound formed when Boron reacts with Chlorine.



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**32.** A group of elements in the Periodic Table are given below (Boron is the first member of the group and Thallium is the last).

Boron

Aluminium

Gallium

Indium

Thallium

Answer the following questions in relation to the above group of elements :

Will the elements in the group to the right of this Boron group be more metallic or less metallic in character ?

Justify your answer.



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## Questions For Practice Fill In The Blanks By Using Correct Word Term Given In The Brackets And Rewrite The Complete Sentence In Your Notebook

1. Horizontal rows of periodic table are called

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2. In the periodic table, the vertical columns are called \_\_\_\_\_ (periods/groups)

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3. The number of electrons in the outermost shell of the atom of an element tells the \_\_\_\_\_ to which the element

belongs. (group/period)

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4. Period 1 contains \_\_\_\_\_ elements. (two/eight)

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5. The elements in a period have \_\_\_\_\_ valencies.  
(same/different).

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6. In the modern periodic table, elements are classified according to their \_\_\_\_\_. (atomic masses/atomic number)

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7. Elements in the same group have \_\_ chemical properties. (similar/different).

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8. As we move across a period from left to right, metallic character \_\_\_\_\_ (decreases/ increases)

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9. As we move across a period from left to right, nonmetallic character \_\_\_\_\_ (decreases/increases)

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10. The atomic size of lithium is \_\_\_\_\_ than that of sodium. (greater/smaller).

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11. Properties of the elements mainly depend on their \_\_\_\_\_ . (electronic configuration/atomic masses)

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12. Fluorine is \_\_\_\_\_ electronegative than lithium.  
(more/less)

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13. Atomic size decreases in a \_\_\_\_\_ of the periodic table as the atomic number increases from left to right.  
(group/period)

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14. In a group, the atomic size \_\_\_\_\_ from top to bottom.  
(increases / decreases).

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15. Ionisation energy decreases in a \_\_\_\_\_ as atomic number increases. (group/period)

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16. Ionisation energy of sodium is \_\_\_\_\_ than that of potassium. (more/less)

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17. If an element of period 2 has one electron in its outermost shell, then it is likely to be a \_\_\_\_\_.  
(metal/nonmetal)



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18. The element at the bottom of a group would be expected to show \_\_\_\_\_metallic character than the element at the top. (less/more)



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19. Properties of the elements are a periodic function of their \_\_\_\_\_. (atomic number/ mass number/relative atomic mass)



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20. The ionisation potential of potassium is \_\_\_\_\_ that of sodium. ( > / < )

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21. Write the correct symbol: > [greater than] or < [less than] in the statements:

The electronegativity of iodine is \_\_\_\_\_ that of chlorine.

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22. If an element has a low ionisation energy, then it is likely to be \_\_\_\_\_. (metallic/ nonmetallic).

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**23.** If an element has seven electrons in its outermost shell then it is likely to have the \_\_\_\_ [largest/smallest] atomic size among all the elements in the same period.

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## Questions For Practice Choose True And False Statements

**1.** Why atomic number is more fundamental than any other quantity ?

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## 2. Give reason

Atomic size decreases across a period but increases down a group of the periodic table

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3. Atomic radius of lithium is greater than the atomic radius of fluorine. Give reason

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4. State true or false: In a group, the valency of each element is the same.

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5. State true or false: The elements of group 17 of the periodic table are called halogens.

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6. The valency of helium is 2 because it is the second element of period 1.

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7. Lithium is more reactive than potassium.

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**8.** Ionisation energy increases on moving down a group in the periodic table.

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**9.** Electronegativity of fluorine is greater than that of chlorine.

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**10.** Electron affinity is reverse of ionisation energy.

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## Questions For Practice Answer The Questions In One Word Or In One Sentence

1. How many groups are there in the modern periodic table?

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2. Name the first element of group 13.

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3. Potassium belongs to which period of the periodic table?

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4. Calcium belongs to which group of the periodic table?

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5. How many electrons are present in the outermost orbit of helium?

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6. How many shells are there in an atom of silicon?

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7. Name the element which belongs to group 17 and period 2 of the modern periodic table.

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8. What is the common name of the elements of group 1?

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9. What is the general name of the elements of group 17?

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**10.** To which group of the modern periodic table do alkaline earth metals belong?

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**11.** Which one of Li and F has larger atomic radius?

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**12.** Which one of Li and K has larger atomic size?

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**13.** How does valency change within a group of the periodic table?

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**14.** Which one of F and Cl is more electronegative?

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**15.** Which one of F and Cl has larger electron affinity?

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**16.** What is the trend in the atomic size in a group, does it increase or decrease?

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**17.** State modern periodic law of classification of elements.

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**18.** Who proposed that atomic number is the fundamental property of an element?

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19. Which one of Mg and Ca is more metallic?

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20. From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

Which one of N, O and F is most electronegative?

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**Questions For Practice Select The Correct Answer From The Given Choices A B C And D**

1. Which one represents the elements of group 1?

A. Li, Be, B

B. Li, Na, K

C. O, F, Ne

D. H, He, Ne

**Answer: B**



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**2. What is the basis of the long form of the periodic table?**

A. Atomic mass

B. Atomic number

C. Atomic size

## D. Metallic and nonmetallic character

**Answer: B**

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3. What is the valency of halogens?

A. 7

B. 3

C. 1

D. 4

**Answer: C**

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4. In the modern periodic table, which one is most correct about a period?

A. The first element is an alkali metal, and the last element is a halogen.

B. The first element is a noble gas, and the last one is an alkali metal.

C. The first element is an alkali metal, and the last element is a noble gas.

D. Each element is a nonmetal.

**Answer: C**



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5. Name an element that has two shells each one of which is completely filled with electrons.

A. Na

B. Al

C. F

D. Ne

**Answer: D**



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6. Name an element which has a total of three shells and there are four electrons in its valence shell.

A. P

B. O

C. Si

D. S

**Answer: C**



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7. Which one of the following has the largest atomic radius?

A. Li

B. F

C. K

D. Br

**Answer: C**



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**8.** Name an element which has a total of two shells and there are three electrons in its valence shell.

A. Be

B. B

C. Al

D. Mg

**Answer: B**



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9. Which one of the following has the smallest atomic radius?

A. Li

B. F

C. K

D. Br

**Answer: B**



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**10.** Name or state with reference to the elements of the modern periodic table.

The formula of the hydroxide of the element having electronic configuration 2, 8, 2.

A. Na

B. Al

C. Mg

D. Ne

**Answer: C**



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11. Which element has twice as many electrons in its second shell as in the first shell?

A. Be

B. B

C. C

D. N

**Answer: C**



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12. Which one of the following is most reactive? Li Na K Rb

A. Li

B. Na

C. K

D. Rb

**Answer: D**



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13. Which one of the following is most metallic? Na Mg Al

Si

A. Na

B. Mg

C. Al

D. Si

**Answer: A**



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**14.** Which one of the following is least reactive element? F

Cl Br I

A. F

B. Cl

C. Br

D. I

**Answer: D**

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15. Which one of the following is most electronegative? F

Cl Br I

A. F

B. Cl

C. Br

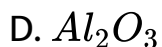
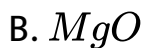
D. I

**Answer: A**



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16. Which one of the following is an oxide of an alkali metal?



**Answer: A**

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17. Atomic number is the fundamental property of an element'. Write the name of the scientist who proved it by an X-ray experiment.

A. a)Bohr

B. b)Newlands

C. c)Mendeleev

D. d)Moseley

**Answer: D**



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**18.** What is the atomic number of an element of period 2 and group 17 of the periodic table?

A. 10

B. 9

C. 17

D. 19

**Answer: B**



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**19.** Which of the following pairs of elements are members of the same group? K and Sr Ar and Cl Si and Ca O and S

A. K and Sr

B. Ar and Cl

C. Si and Ca

D. O and S

**Answer: D**



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**20.** Which one of the following has the largest ionisation energy? Ar Cl K Al

A. Ar

B. Cl

C. K

D. Al

**Answer: A**



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**21. Which one of the following is an alkali metal?**

A. a)Mg

B. b)Al

C. c)K

D. d)Kr

**Answer: C**



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22. Which one of the following is a member of halogen family?

A. Cu

B. Cr

C. Cl

D. Ca

**Answer: C**



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23. The total number of elements in period 3 of the periodic table is:

A. a)2

B. b)8

C. c)18

D. d)32

**Answer: B**



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24. Which electronic configuration corresponds to a noble gas?

A. 2, 2

B. 2, 8, 2

C. 2, 8, 5

D. 2, 8, 8

**Answer: D**



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**25.** Which electronic configuration corresponds to an alkali metal?

A. a) 2, 2

B. b) 2, 8, 2



C. c)2, 8, 1

D. d)2, 8, 8

**Answer: C**



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**26.** Which electronic configuration corresponds to a halogen?

A. 2, 2

B. 2, 8, 2

C. 2, 8, 1

D. 2, 8, 7

**Answer: D**

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27. Which one is an oxide of group 2 metal?

A. MgO

B.  $K_2O$

C.  $Na_2O$

D.  $Al_2O_3$

**Answer: A**

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28. Among the elements given below the element with highest electronegativity is

A. a)lithium

B. b)carbon

C. c)boron

D. d)fluorine

**Answer: B**



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29. Ionisation potential increases in a period from left to right because

A. atomic radius increases and nuclear charge increases.

B. atomic radius decreases and nuclear charge decreases.

C. atomic radius increases and nuclear charge decreases.

D. atomic radius decreases and nuclear charge increases.

**Answer: D**



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**30.** If an element A belongs to period 3 and group 2, then it will have

- A. 3 shells and 2 valence electrons
- B. 2 shells and 3 valence electrons
- C. 3 shells and 3 valence electrons
- D. 2 shells and 2 valence electrons

**Answer: A**



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**Questions For Practice On Examination Pattern Section I**  
**Select The Correct Answers From The Given Choices A B C D**  
**Write Down Only The Letter Corresponding To The Correct**  
**Answer**

1. With reference to the variation of properties in the periodic table, which of the following is true?

A. Atomic size increases from left to right across a period.

B. Ionisation potential increases from left to right across a period.

C. Electron affinity increases on going down a group.

D. Electronegativity increases on going down a group.

**Answer: B**



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2. With reference to the variation of properties in the periodic table, which of the following is true?

- A. Atomic size decreases from left to right across a period.
- B. Ionisation energy decreases from left to right across a period.
- C. Electron affinity increases on going down a group.
- D. Electronegativity decreases from left to right across a period.

**Answer: A**



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3. Which of the following is true in the periodic table?

- A. Atomic size increases from left to right across a period.
- B. Electron affinity decreases on going down a group.
- C. Metallic character decreases from left to right across a period.
- D. Electronegativity increases on going down a group.

**Answer: C**



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4. Which of the following is generally true. A: Atomic size increases from left to right across a period. B: Ionization potential increases from left to right across a period. C: Electron affinity increases on going down a group. D: Electronegativity increases on going down a group.

A. Atomic size decreases from left to right across a period.

B. Electron affinity decreases on going down a group.

C. Metallic character decreases from left to right across a period.

D. Electronegativity increases on going down a group.

**Answer: D**



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5. Which electronic configuration corresponds to an alkali metal? 2, 2 2, 8, 2 2, 8, 1 2, 8, 8

- A. 2, 2
- B. 2, 8, 2
- C. 2, 8, 1
- D. 2, 8, 8

**Answer: C**



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6. Name an element that has two shells each one of which is completely filled with electrons.

A. a)Sodium

B. b)Aluminium

C. c)Fluorine

D. d)Neon

**Answer: D**



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7. Name an element which has a total of three shells and there are four electrons in its valence shell.

A. a)Fluorine

B. b)Oxygen

C. c)Silicon

D. d)Sulphur

**Answer: C**



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**8.** Which one of the following has the largest atomic radius? a) lithium b) sodium c) potassium d) chlorine

A. a)Lithium

B. b)Sodium

C. c)Potassium

D. d)Chlorine

**Answer: C**



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**9. Which element has a total of two shells and there are three electrons in its valence shell?**

A. Beryllium

B. Boron

C. Aluminium

D. Magnesium

**Answer: B**

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**10.** Which one of the following has the smallest atomic radius?

A. Lithium

B. Fluorine

C. Potassium

D. Chlorine

**Answer: B**

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11. An element in period 3 whose electron affinity is zero.

A. Neon

B. Sulphur

C. Sodium

D. Argon

**Answer: D**



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12. Choose the correct answer

An alkaline earth metal .

A. Potassium

B. Calcium

C. Lead

D. Copper

**Answer: B**



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**13.** Select odd one from the following and justify your answer.

F, Cl, Br, O



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**14.** Select odd one from the following and justify your answer.

H, Na, Li, N

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**15.** Select odd one from the following and justify your answer.

Li, Na, Mg, K

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**Questions For Practice On Examination Pattern Section I**

1. Match (A) ionisation energy, (B) atomic size, (C) electron affinity, (D) electronegativity, (E) ionisation potential with its correct definition given in (i) – (v) below.

(i) The work done in removing an electron from the outermost orbit of a gaseous atom.

(ii) The energy change when an atom accepts an electron in its outermost shell

(iii) The energy required in removing an electron from the outermost shell of a gaseous atom

(iv) The distance of the electron in the outermost orbit of an atom from its nucleus.

(v) The power of the atom to attract electron or electrons in a chemical bond.



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2. Select odd one from the following and justify your answer.

Li, Be, B, Na

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## Questions For Practice On Examination Pattern Section Ii

1. Name the first and last element in period 2

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2. The following questions refer to the periodic table.  
Answer them carefully.

What happens to the atomic size of elements moving from top to bottom of a group?

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3. The following questions refer to the Periodic Table :

Which of the elements has the greatest electron affinity among the halogens ?

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4. What is the common feature of the electronic configurations of the elements in group 17[VIIA]

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5. If an element has a low ionization energy then it is likely to be \_\_\_\_\_ ["metallic"// "non-metallic"]



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6. If an element has seven electrons in its outermost shell then it is likely to have the \_\_\_\_\_ [largest/smallest] atomic size among all the elements in the same period.



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7. The metals of group-2 from top to bottom are Be, Mg, Ca, Sr, Ba. Which of these metals will form ions most readily and why?

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8. What property of an element is measured by electronegativity.

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9. Look at the atomic radii of some elements of the second period and answer the questions.



Are these elements arranged on the pattern of a period of the periodic table?

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**10.** Look at the atomic radii of some elements of the second period and answer the questions.



Arrange these elements in the decreasing order of their atomic radii.

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**11.** Look at the atomic radii of some elements of the second period and answer the questions.



Which element has the largest atomic radius and which one has the smallest?

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**12.** Name one other element for each which is in the same group as

(i) carbon (ii) fluorine (iii) sodium

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**13.** If the element with atomic number 18 is a noble gas, to which group do you expect the elements with atomic numbers 17 and 19 belong?

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**14.** The atomic number of helium is 2 and the atomic number of lithium is 3. Is it possible to have an element



with atomic number 2.5?

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**15.** From the electronic configurations Na (2, 8, 1), Mg (2, 8, 2) and Al (2, 8, 3), answer the following questions:

What is the number of valence electrons in each element?

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**16.** From the electronic configurations Na (2, 8, 1), Mg (2, 8, 2) and Al (2, 8, 3), answer the following questions:

Assign the periods to each element in the periodic table.

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**17.** From the electronic configurations Na (2, 8, 1), Mg (2, 8, 2) and Al (2, 8, 3), answer the following questions:

Which element is the most reactive?

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**18.** From the electronic configurations Na (2, 8, 1), Mg (2, 8, 2) and Al (2, 8, 3), answer the following questions:

Which element is the least reactive?

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**19.** From the electronic configurations Na (2, 8, 1), Mg (2, 8, 2) and Al (2, 8, 3), answer the following questions:

Which element has the largest atomic radius?



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20. An element belongs to group 17 and period 3 of the periodic table. Write the following:

The number of valence electrons in its atom.



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21. An element belongs to group 17 and period 3 of the periodic table. Write the following:

Its valency.



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**22.** An element belongs to group 17 and period 3 of the periodic table. Write the following:

Its metallic and nonmetallic nature

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**23.** An element belongs to group 17 and period 3 of the periodic table. Write the following:

Its electronic configuration.

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24. Complete the given table :

Li				
Na				
K				
Rb				
Cs				
Fr				
	Size	Valence electrons	REACTIVITY	I.E.

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25. An element X of group 15 and period 2 exists as diatomic molecule. It combines with hydrogen and forms ammonia in the presence of a suitable catalyst.

Identify the element X.



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**26.** An element X of group 15 and period 2 exists as diatomic molecule. It combines with hydrogen and forms ammonia in the presence of a suitable catalyst.

Write the electronic configuration of X and count the number of valence electrons.



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**27.** An element X of group 15 and period 2 exists as diatomic molecule. It combines with hydrogen and forms ammonia in the presence of a suitable catalyst.

Draw the electron dot structure of the diatomic molecule, and identify and name the type of bond formed.

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**28.** An element X of group 15 and period 2 exists as diatomic molecule. It combines with hydrogen and forms ammonia in the presence of a suitable catalyst.

Draw the electron dot structure of ammonia.

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**29.** What is the total number of covalent bonds in a molecule of ammonia?

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**30.** In group 1 of the periodic table three elements X, Y and Z have atomic radii 133 pm, 95 pm and 65 pm respectively. Giving a reason, arrange them in the order of increasing atomic number in the group.

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**31.** From each of the following sets, name the element with characteristics specified below:



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**32.** From the electronic configurations Li (2, 1), Na (2, 8, 1) and K (2, 8, 8, 1), answer the following questions:

What is the valence shell of element K?

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**33.** From the electronic configurations Li (2, 1), Na (2, 8, 1) and K (2, 8, 8, 1), answer the following questions:

What is the period of Na in the periodic table?

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**34.** From the electronic configurations Li (2, 1), Na (2, 8, 1) and K (2, 8, 8, 1), answer the following questions:

Which of these elements has the largest atomic radius?

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**35.** From the electronic configurations Li (2, 1), Na (2, 8, 1) and K (2, 8, 8, 1), answer the following questions:

Which one is the most reactive?

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**36.** From the electronic configurations Li (2, 1), Na (2, 8, 1) and K (2, 8, 8, 1), answer the following questions:

Formula of sodium sulphate is  $Na_2SO_4$ . Write the formula of potassium sulphate.

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**37.** State the following:

How do the atomic radii change in a period with increasing atomic number?



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**38.** State the following:

How does metallic character change in a period on moving from left to right?



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**39.** From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

Which one of N, O and F is most electronegative?

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**40.** From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

What is the number of valence electrons of F?

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**41.** From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

What is the period number of O in the periodic table?

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**42.** From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

What is the valency of each one of N, O and F?

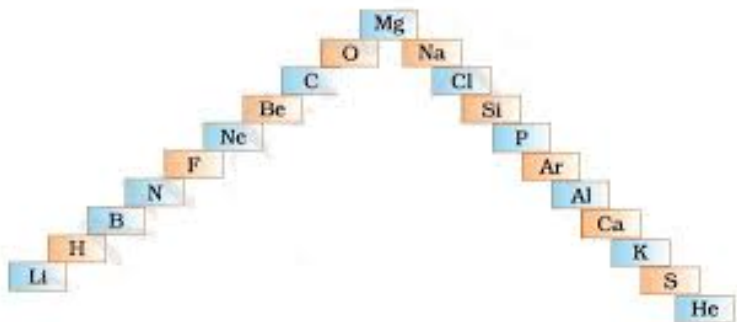
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**43.** From the electronic configurations N (2,5), O (2,6) and F (2,7), answer the following questions:

Which one has the largest atomic radius?

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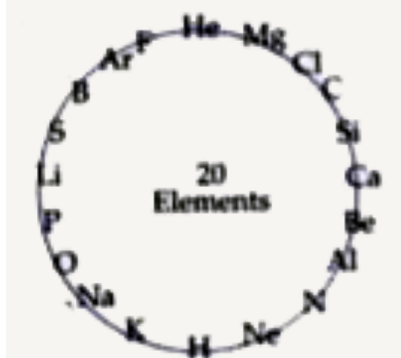
**44.** Atomic symbols of the first 20 elements of the periodic table are jumbled.



Rearrange these elements in the increasing order of their Elements atomic numbers

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**45.** Atomic symbols of the first 20 elements of the periodic table are jumbled up in a circle.



Arrange these elements in their correct periods.

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46. Atomic symbols of the first 20 elements of the periodic table are jumbled up in a circle.

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47. In a period if the atomic radius of the first element is 152 pm, what is the atomic radius of the third element-

more than or less than 152 pm?

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**48.** In a period if the atomic radius of the first element is 152 pm, what is the atomic radius of the third element—more than or less than 152 pm?

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**49.** Which one of the figures I and II represents the correct measure of atomic radius ( $r$ )?

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50. Consider the section of the periodic table given below.

Group numbers	IA	IIA	IIIA	IVA	VA	VI A	VIIA	0
	1	2	13	14	15	16	17	18
	Li		F			O	J	Ne
	A	Mg	E	Si		H	K	
	B	C		F	G			L

Note : In this table B does not represent boron

C does not represent carbon

F does not represent fluorine

H does not represent hydrogen

K does not represent potassium

You must see the position of the element in the periodic table.

Some elements are given in their own symbol and position in the periodic table, while others are shown with a letter.

With reference to the table:

Which is the most electronegative ?



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**51.** Consider the section of the periodic table given below.



Note: In this table, B does not represent boron

C does not represent carbon

F does not represent fluorine

H does not represent hydrogen

K does not represent potassium

You must see the position of the element in the periodic table.

Some elements are given in their own symbol and position

in the periodic table, while others are shown with a letter.

With reference to the table:

How many valence electrons are present in G?

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52. Consider the section of the periodic table given below.

<i>Group numbers</i>	<i>IA</i>	<i>II A</i>	<i>III A</i>	<i>IV A</i>	<i>V A</i>	<i>VI A</i>	<i>VII A</i>	<i>0</i>
	<i>1</i>	<i>2</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>
	<i>Li</i>		<i>D</i>			<i>O</i>	<i>J</i>	<i>Ne</i>
	<i>A</i>	<i>Mg</i>	<i>E</i>	<i>Si</i>		<i>H</i>	<i>K</i>	
	<i>B</i>	<i>C</i>		<i>F</i>	<i>G</i>			<i>L</i>

Note: In this table, B does not represent boron

C does not represent carbon

F does not represent fluorine

H does not represent hydrogen

K does not represent potassium

You must see the position of the element in the periodic table.

Some elements are given in their own symbol and position in the periodic table, while others are shown with a letter.

With reference to the table:

Write the formula of the compound between B and H.

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**53.** Consider the section of the periodic table given below.

<i>Group numbers</i>	<i>IA</i>	<i>II A</i>	<i>III A</i>	<i>IV A</i>	<i>VA</i>	<i>VI A</i>	<i>VII A</i>	<i>0</i>
	<i>1</i>	<i>2</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>
	<i>Li</i>		<i>D</i>			<i>O</i>	<i>J</i>	<i>Ne</i>
	<i>A</i>	<i>Mg</i>	<i>E</i>	<i>Si</i>		<i>H</i>	<i>K</i>	
	<i>B</i>	<i>C</i>		<i>F</i>	<i>G</i>			<i>L</i>

Note: In this table, B does not represent boron

C does not represent carbon

F does not represent fluorine

H does not represent hydrogen

K does not represent potassium

You must see the position of the element in the periodic table.

Some elements are given in their own symbol and position in the periodic table, while others are shown with a letter.

With reference to the table:

In the compound between F and J, what type of bond will be formed?

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**54.** Consider the section of the periodic table given below.



Note: In this table, B does not represent boron

C does not represent carbon

F does not represent fluorine

H does not represent hydrogen

K does not represent potassium

You must see the position of the element in the periodic table.

Some elements are given in their own symbol and position in the periodic table, while others are shown with a letter.

With reference to the table:

Draw the electron dot structure for the compound formed between C and K.



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**55.** The elements of one short period of the periodic table are given below in order from left to right:

Li Be B C O F Ne

Which one of the above elements belongs to the halogen series?

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**56.** The elements of one short period of the Periodic Table are given below in the order from left to right:

Li Be B C O F Ne

One element of this period is missing. Which is the missing element and where should it be placed ?

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57. The elements of one short period of the periodic table are given below in order from left to right:

Li Be B C O F Ne

Which one of the elements in this period shows the property of catenation?

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58. The elements of one short period of the periodic table are given below in order from left to right:

Li Be B C O F Ne

Place the three elements fluorine, beryllium and nitrogen in the order of increasing electronegativity.

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**59.** The elements of one short period of the periodic table are given below in order from left to right:

Li Be B C O F Ne

Which one of the above elements belongs to the halogen series?



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**60.** Use the letters only written in the periodic table given below to answer the questions that follow.

State the number of valence electrons in the atom of element J.



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61. Use the letters only written in the Periodic Table given below to answer the questions that follow :

	I	II	GROUPS										III	IV	V	VI	VII	0
1																	L	
2	Q												E	G	J	Z	M	
3	R																	
4	T																	
5																		

Which element shown forms ions with a single negative charge ?

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62. Use the letters only written in the periodic table given below to answer the questions that follow.

Which metallic element is more reactive than element R?



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**63.** Use the letters only written in the periodic table given below to answer the questions that follow.

Which element has its electrons arranged in four shells?



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**64.** Consider a part of the periodic table of elements



- In this table H does not represent hydrogen.

- Some elements are given in their own symbol and position in the periodic table while others are shown by letters. With reference to the table answer the following questions.

Identify the most electronegative element.



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**65.** Consider a part of the periodic table of elements



- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table while others are shown by letters. With reference to the table answer the following

questions.

Identify the most electronegative element.

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**66.** Consider a part of the periodic table of elements



- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table while others are shown by letters. With reference to the table answer the following questions.

Identify the element of period 3 with least atomic size.

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Group	IA	IIA	IIIA	IVA	VA	VIA	VIIA	0
number	1	2	13	14	15	16	17	18
2 <sup>nd</sup> period	Li		D			O	J	Ne
	A	Mg	E	Si		H	M	
	R	T	I		Q	u		y

67.

- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table.
- While others are shown with a letter.

With reference to the table answer the following questions :

Which element from group 2 would have the least ionization energy?



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68. Consider a part of the periodic table of elements



- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table while others are shown by letters. With reference to the table answer the following questions.

How many valence electrons are present in Q?



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Group	IA	IIA	IIIA	IVA	VA	VIA	VIIA	0
number	1	2	13	14	15	16	17	18
2 <sup>nd</sup> period	Li		D			O	J	Ne
	A	Mg	E	Si		H	M	
	R	T	I		Q	u		y

69.

- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table.
- While others are shown with a letter.

With reference to the table answer the following questions :

Identify the noble gas of the fourth period.



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Group	IA	IIA	IIIA	IVA	VA	VIA	VIIA	0
number	1	2	13	14	15	16	17	18
2 <sup>nd</sup> period	Li		D			O	J	Ne
	A	Mg	E	Si		H	M	
	R	T	I		Q	u		y

70.

- In this table H does not represent hydrogen.
- Some elements are given in their own symbol and position in the periodic table.
- While others are shown with a letter.

With reference to the table answer the following questions :

In the compound between A and H what type of bond would be formed and give the molecular formula for the same.



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