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## classification periodic chemistry about Worksheet الملف

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577.5

1,810

2,750

11,580

14,820

Unit

3

## PERIODIC CLASSIFICATION OF ELEMENTS

. v	What would be the IUPAC name for an element with atomic number 222?				
a	) bibibiium	b) bididium	c) didibium	d)bibibium	
2				1s <sup>2</sup> , 2s <sup>2</sup> , 2p <sup>6</sup> ,3s <sup>2</sup> and 1s <sup>2</sup> , at can be formed between	
a	) AB	b) AB <sub>2</sub>	c) A <sub>2</sub> B	d) none of the above.	
	The group of element hell of atoms are ca		rentiating electron er	nters the anti penultimate	
a	a) p-block elements		b) d-block elements		
c	c) s-block elements		d) f-block elements		
			rder of arrangement it? (NEET 2016 Phas	does not agree with the se 1)	
a	n) I < Br < Cl < F (in	creasing electron g	gain enthalpy)		
b	o) Li < Na < K < Rb	(increasing metalli	c radius)		
c	c) $Al^{3+} < Mg^{2+} < Na^{+}$	<f (increasing="" ion<="" td=""><td>nic size)</td><td></td></f>	nic size)		
d	d) B < C < O < N (in	creasing first ionis	ation enthalpy)		
. 1	Which of the following elements will have the highest electronegativity?				
a	) Chlorine	b) Nitrogen	c) Cesium	d) Fluorine	
i. \	Various successive io	•	s (in kJ mol <sup>-1</sup> ) of an e	element are given below.	

	The element is				
	a) phosphorus	b) Sodium	c) Aluminium	d) Silicon	
7.	In the third period the first ionization potential is of the order.				
	a) $Na > Al > Mg > Si > P$		b) $Na < Al < Mg < Si < P$		
	c) $Mg > Na > Si > P > Al$ d) $Na < Al < Mg < P < Si$				
8.	Identify the wrong statement.				
	<ul> <li>Amongst the isoelectronic species, smaller the positive charge on cation, smaller is the ionic radius</li> </ul>				
	<ul> <li>Amongst isoelectric species greater the negative charge on the anion, larger is the ionic radius</li> </ul>				
	<ul> <li>Atomic radius of the elements increases as one moves down the first group of the periodic table</li> </ul>				
		lius of the elements de period of the periodic		across from left to right	
9.	Which one of the following arrangements represent the correct order of least negative to most negative electron gain enthalpy				
	a) Al < O < C <	Ca < F	b) Al < Ca < O < 0	C < F	
	c) C < F < O < A	l < Ca	d) Ca < Al < C < 0	) < F	
10.	The correct order of electron gain enthalpy with negative sign of F, Cl, Br and I having atomic number 9, 17, 35 and 53 respectively is				
	a) I > Br > Cl > F	7	b) F > Cl > Br > I		
	c) Cl > F > Br > I		d) Br > I > Cl > F		
11.	Which one of the following is the least electronegative element?				
	a) Bromine	b) Chlorine	c) Iodine	d) Hydrogen	

c) Argon

b) Z > A > Y > X

d) X > Y > A > Z

13. The correct order of decreasing electronegativity values among the elements X, Y, Z

d) Fluorine

12. The element with positive electron gain enthalpy is

b) Sodium

and A with atomic numbers 4, 8, 7 and 12 respectively

a) Hydrogen

a) Y > Z > X > A

c) X > Y > Z > A

14. Assertion: Helium has the highest value of ionisation energy among all the elements known Reason: Helium has the highest value of electron affinity among all the elements known Both assertion and reason are true and reason is correct explanation for the a)

assertion

Both assertion and reason are true but the reason is not the correct explanation b) for the assertion

Assertion is true and the reason is false c)

Both assertion and the reason are false d)

15. The electronic configuration of the atom having maximum difference in first and second ionisation energies is

a) 
$$1s^2$$
,  $2s^2$ ,  $2p^6$ ,  $3s^1$ 

b) 
$$1s^2$$
,  $2s^2$ ,  $2p^6$ ,  $3s^2$ 

c) 
$$1s^2$$
,  $2s^2$ ,  $2p^6$ ,  $3s^2$ ,  $3s^2$ ,  $3p^6$ ,  $4s^1$  d)  $1s^2$ ,  $2s^2$ ,  $2p^6$ ,  $3s^2$ ,  $3p^1$ 

16. Which of the following is second most electronegative element?

a) Chlorine

b) Fluorine

c) Oxygen

d) Sulphur

17. IE, and IE, of Mg are 179 and 348 kcal mol-1 respectively. The energy required for the reaction Mg  $\rightarrow$  Mg<sup>2+</sup> + 2 e<sup>-</sup> is

a) +169 kcal mol-1

b) - 169 kcal mol-1

c) + 527 kcal mol-1

d) - 527 kcal mol-1

18. In a given shell the order of screening effect is

a) 
$$s > p > d > f$$

b) 
$$s > p > f > d$$

c) 
$$f > d > p > s$$

b) s > p > f > d c) f > d > p > s d) f > p > s > d

19. Which of the following orders of ionic radii is correct?

a) 
$$H^- > H^+ > H$$

b) 
$$Na^+ > F^- > O^{2-}$$
 c)  $F > O^{2-} > Na^+$  d) None of these

c) 
$$F > O^{2-} > Na^{-1}$$

20. The First ionisation potential of Na, Mg and Si are 496, 737 and 786 kJ mol-1 respectively. The ionisation potential of Al will be closer to

d) 419 kJ mol-1

21.	Which one of the following is true about metallic character when we move from left to right in a period and top to bottom in a group?					
	a)	a) Decreases in a period and increases along the group				
	b) Increases in a period and decreases in a group					
	c) Increases both in the period and the group					
	d) Decreases both in the period and in the group					
22.	. How does electron affinity change when we move from left to right in a period in the periodic table?					
	a) Generally increases		b) Generally decreases			
	c) Remains unchanged		anged	d) First increases and then decreases		
23.	Which of the following pairs of elements exhibit diagonal relationship?			l relationship?		
	a) B	se and Mg	b) Li and Be	c) Be and B	d) Be and Al	