			IEE MAU	N · CHADTE	WIGE	TEST DA	DED-	•				
SUBJECT :- CHEMISTRY CLASS :- 11 <sup>th</sup>					R WISE TEST PAPER-3 DATE							
						NAME						
	TER:-PREC	DIC TABLE				SECT	ION					
				(SECT	ION-A							
1.	The atomic volume was chosen as the basis of				9.	Match list – I with list – II and select the correct						
	periodic classification of elements by:					answe	r using	the code	s given below –			
	(A) Niels B	ohr	(B) Mende			List –	List – I			· II		
	(C) Lother I	Maeyer	(D) Newla	ands		lon			Radiu	S		
				(I) Li⁺			(a) 21					
2.	Which one of the following statements related to the modern periodic table is <b>incorrect</b> ?  (A) The p-block has 6 columns, because a maximum of 6 electrons can occupy all the orbitals in a p-subshell.					(II) Na			(b) 19			
						, ,	(III) Br			(c) 60		
						(IV) I-			(d) 95			
						Codes	<b>3</b> :	п		N /		
		•		hecause a		<b>(A)</b>	ı		 	IV		
	(B) The d-block has 8 columns, because a maximum of 8 electrons can occupy all the orbitals in a d-subshell.					(A) (B)	a b	b c	d	c d		
						(C)	С	d	a b	a		
				r of columns		(D)	d	C	b	a		
	` '			ns that can		(2)	•	Ū	~	ű		
	occupy that subshell.				10.	Which	Which electronic configuration of neutral atoms					
	(D) The block indicates value of azimuthal						will have the highest first ionisation energy?					
	quantum n	antum number (I) for the last subshell that					(A) 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>4</sup>			(B) 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>3</sup>		
	received electrons in buildin <mark>g up the electroni</mark>			ne electronic		(C) 1s	(C) 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>2</sup>			(D) 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>1</sup>		
	configuration	on.										
						Ionisation energy:						
3.	Which of the following is/are generally true					(A) inc	(A) increases with an increase in atomic radii.					
	regarding effective nuclear charge (Z <sub>eff</sub> ):						(B) is independent of atomic radii.					
	<ul><li>(A) It increases on moving left to right in a period.</li><li>(B) It remains almost constant on moving top</li></ul>					٠, ,	(C) decreases with an increase in atom					
	to bottom in a group.						(D) remains constant with an increase or					
	(C) For isoelectronic species, as Z increases,					decrea	decrease in atomic radii.					
	$Z_{\text{eff}}$ decreases.				12.	For el	For electron affinity of halogens which of the					
	(D) Both (A) and (B).					following is correct?						
							(A) Br > F			(B) F > Cl		
4.	Among following species which of them have					` '	(C) Br < Cl			(D) F-> I		
	maximum Z <sub>eff</sub>					(-)			( )			
	(A) Sn	(B) Sn <sup>4+</sup>	(C) In	(D) In⁺	13.	Which	of th	e followi	ng will l	have	the most	
_					negati	negative electron gain enthalpy and which the						
5.	Most stable oxidation state of gold is:						least negative?					
	(A) + 1	(B) +3	(C) +2	(D) zero		(A) F,	CI (	B) CI, F	(C) S,	CI	(D) CI, P	
6.	Which of the following is correct order of stability:					<b></b>		N 4 - 1121		44		
<b>o</b> .	(A) $TI^{3+} > Bi^{3+}$ (B) $PbO_2 > PbO$				14.		Following the Mulliken scale, what parameters					
	(C) $BiI_5 < BiF_5$ (D) $Sn^{2+} = Ge^{2+}$						are required to evaluate electronegativity?  (A) Only electronegativity					
	(, 5 5 (, 2						(B) Only electron affinity					
7.	Which one of the following is the smallest in					, ,	(C) Electron affinity and ionization energy					
	size?						(D) Ionic potential and electronegativity					
	(A) $N^{3-}$	(B) O <sup>2-</sup>	(C) F <sup>-</sup>	(D) Na⁺		(= ) .31	-   1.			J	- <i>y</i>	
						The el	The electronegativity of the following elements					
8.	Which of the following order of radii is correct?					increases in the order:						
	(A) Li < Be < Mg (B) $O^+$ < $O^{2-}$ < $N^{3-}$						(A) C < N < Si < P			(B) N < Si, < C < P		
	(C) O < F <	< Ne	(D) Na⁺ >	F- > O <sup>2-</sup>		(C) Si	< P <	C < N	(D) P	< Si ·	< N < C	

- 16. The outer most electronic configuration of the most electronegative atom is:
  - (A) ns<sup>2</sup> np<sup>5</sup>
- (B) ns<sup>2</sup>np<sup>6</sup>
- (C) ns<sup>2</sup>np<sup>4</sup>
- (D) ns<sup>2</sup>np<sup>3</sup>
- 17. Second electron effinity of an element is:
  - (A) Always exothermic
  - (B) Endothermic for few elements
  - (C) Exothermic for few elements
  - (D) Always endothermic
- 18. The first ionisation energy in eV of N & O are respectively given by:
  - (A) 14.6, 13.6
- (B) 13.6, 14.6
- (C) 13.6, 13.6
- (D) 14.6, 14.6
- (SECTION-B)

19.

20.

- 21. Elements of which period show maximum inert pair effect:
  - (A)3
- (B) 4
- (C)5
- (D)6
- 22. Calculate the Z<sub>eff</sub> (approx) for 4s electron of Niatom according to Slater's rule.
- 23. Calculate experimental bond moment (Approximate, in Debye) of A - B bond. If electronegativity of element A & B is 2 and 3.5 respectively & bond length is 3.92 Å. (Round off to the nearest integer)
- 24. If there were 9 periods in the periodic table & each orbital can have maximum 5 electrons. then how many maximum number of elements will be present in period 9?
- 25. If each orbital can accommodate maximum 4 electrons then how many total number of electrons are present in 3<sup>rd</sup> energy shell.

(D) Find the product of multiplication of number of 26.

Na⁺

O<sup>2-</sup>

F-

Na⁺

Atomic radii of F & Ne in Angstrom are

From the given set of species, point out the

b

Be

Li

Na

Be

electrons corresponding to (n + I) = 3 and I = 2

species from each set having highest Z<sub>off</sub>

(B) 1.60, 1.60

(D) 1.60, 0.72.

(b) Li, Be, Na

С Li+

H-

He

He

respectively given by:

(A) 0.72, 1.60

(C) 0.72, 0.72

(a) O<sup>2-</sup>, F<sup>-</sup>, Na<sup>+</sup>

(c) He, Li+, H-

(A)

(B)

(C)

in Cu (29).

- 27. Find the number of electrons present in the Br ion which are having the (+1) value of magnetic quantum number (m).
- 28. Find out the electronegativity difference between two atoms when the percentage ionic character is 19.5 %.
- 29. Find the number of 'p' block elements from the following atomic numbers given below. 83 79 42 64 37 54 34
- 30. The number of electrons present in the s-subshell within Mn.