VISWABHARATI - GUDIVADA

WORK SHEET - 2

Chapters: The Periodic Table, Chemical bonding

Class: X Subject: Chemistry		Time: 75min
		Marks: 30
Name	Class/Sec:	Roll No:
I)Ans	wer the following Questions	$15 \times 2 = 30$
1.	Define Ionization energy? What are the factors that influence it?	
2.	An element has atomic number 19. Where would you expect this elemen	t in the periodic table and
	why?	
3.	Comment on the position of Hydrogen in Periodic table.	
4.	Write down the characteristics of the element having atomic number 17.	
	A)Electronic configuration B) Period Number C) Group Number	D) Element family
5.	How does the periodic property atomic size changes in Groups and Perio	ds?
6.	Elements in a group generally posses similar properties but elements alon	ng a period have different
	properties. How do you explain this statement?	
7.	State Mendeleev's and modern periodic laws?	
8.	Write differences between Ionic bond and Covalent bond?	
9.	Predict the reason for low melting point for Covalent compounds when c	compared with ionic
	compounds?	
10	. What is octet rule? How do you appreciate role of the octet rule in explai	ning the chemical properties
	of element?	
11	. Why do only valence electrons involve in bond formation?	
12	. How bond length and bond energy of molecules helps in predicting their	chemical properties?
13	. Why $sigma(\sigma)$ bond is stronger then $pi(\pi)$ bond?	
14	. A,B,C are three elements with atomic number6, 11 & 17 respectively.	
	i) Which of these cannot form ionic bond? Why?	
	ii) Which of these cannot form covalent bond? Why?	
	iii) Which of these can form both ionic as well as covalent bonds?	
15	. Draw Lewis Notations for following molecules.	
	a) Water(H ₂ O) b) Ammonia (NH ₃)	