Class-9(Chemistry)

Vacation work sheet

Chapter-4

Periodic Table

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- Complete the sample creative questions which are given below with the help of text book and lecture videos.
- Revise the questions which have given in the topic-wise uploaded work sheets with videos on periodic table.

***** Creative questions:

1.

	X	Two protons less of the indicated atom than Cl.		
Y Situated at the 4 th position a		Situated at the 4 th position at the right side of Ca in		
Element		periodic table.		
	Z	Situated in the 4 th period and group no. II.		

- a) What is called coinage metal?
- b) Is it possible to find the I₂ in liquid state? Explain it.
- c) By the electronic configuration find the position of "Y" in periodic table.
- d) Analyze the order of the atomic size of the three elements of X, Y and Z.
- 2. P. Q and R three elements having proton number 21, 29 and 18 respectively in nucleus.
 - a) Write down the octave rule.
 - b) Why is calcium metal called alkaline metal? Explain it.
 - c) Find out the position of P element in the periodic table with the help of electronic configuration.
 - d) Are both Q and R elements follow the general rule of electronic configuration? Analyze it.

3.

						В
Na						Al
X	Ca	Sc	Ti	Y	 Zn	Ga
Z						

- a) Write down Mendeleev's revised periodic law.
- b) Why is element Ne not interested in forming compounds?
- c) Explain the position of element 'Y' in periodic table by distributing electron.

d) Which of the elements of 'X', 'Y' and 'Z' of the stem has comparatively little atomic radius? Give reasons for your answer.

4.

Li		X
Y	Z	 Cl
		Br

[Here, X, Y and Z are symbolic; they are not true symbols of any elements]

- a) Define electronic configuration of element.
- b) Mention the exceptions of periodic table in short.
- c) Discuss the bonding between Z and X.
- d) Arrange X, Y and Z elements according to their atomic radius and ionization energy with logic.

5.

С	X	0	Y	Ne
			Cl	Z

[Here, X, Y and Z are symbolic; they are not true symbols of any elements]

- a) What are halogens?
- b) Mention law od triads and explain it with example.
- c) Which one is more electronegative among X, O and Y? Explain.
- d) Does element Z forms compounds with any other elements of the stem? Justify your answer.

6.

Period	Group-2	 Group-18
2	\mathbf{X}	 Ne
3	Mg	 \mathbf{Y}
1	7	 Kr
	L	 IXI

[Here, X, Y and Z are symbolic; they are not true symbols of any elements]

- a) What is electron affinity?
- b) Among N, O, F and Cl elements, which have the similar chemical characteristics and why?
- c) Among X, Mg and Z, which has the highest ionization energy and which has the least? Explain.
- d) Arrange the elements X, Mg and Z according to their electron affinity with explaination.