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Bal Bharati Public School, Pitampura CLASS X CHEMISTRY ASSIGNMENT

Periodic Classification of Elements

- 1. How many groups and periods are there in the Modern periodic table?
- 2. What was the prediction of Mendeleev regarding the gaps in his periodic table?
- 3. How is valence of an element determined?
- 4. What will be the valence of an element having atomic number 16?
- 5. How does valence vary in going down a group?
- 6. Why inert gases have zero valences?
- 7. What would be the valence of an atom containing 8 electrons in its outermost shell?
- 8. How does the electronegative character of elements vary along a period of the periodic table?
- 9. The present classification of elements is based on which fundamental property of elements?
- 10. Among first ten elements in the modern periodic table name the metals present.
- 11. Metals are on which side of Modern periodic table?
- 12. Name two elements, other than Gallium, whose existence was predicted by Mendeleev.
- 13. State Modern Periodic law.
- 14. Write the name given to the vertical columns in a periodic table.
- 15. What name is given to the horizontal rows in a periodic table?
- 16. Why does silicon is classified as Metalloid?
- 17. Name the scientist who proposed modern periodic law? On which fundamental property of elements it is based?
- 18. Why could no fixed position be given to hydrogen in Mendeleev's Periodic table?
- 19. What are metalloids? Give two examples.
- 20. In group 1 of periodic table three elements X, Y and Z have atomic radii 133pm, 95pm and 65pm respectively giving a reason, arrange them in the increasing order their atomic number.
- 21. How and why does the atomic size vary as you go down the group?

CBSE QUESTIONS

- 1. Arrange the following is descending atomic size Na, Mg, K (1)
- 2. Give the name and electronic configuration of second alkali metal? (1)
- 3. What is the similarity in the electronic configuration of Mg, Ca and Sr? (1)
- 4. Which is bigger in size Na OR K? (1)
- 5. Name three elements which behave as metalloids? (1)
- 6. Alkali metals form positive ions why? (2)

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- 7. Answer these questions
- (a) Name the elements present in the third period and classify them into metals and non metals.
- (b) On which side of the table do you find the metals?
- (c) On which side of the table do you find the non metals? (3)
- 8. Calcium is an element with Z = 20 (3)
- (a) Is it a metal or a non metal?
- (b) Will its size be more or smaller than that of potassium?
- (c) Write the formula of its chloride