

# CHEMISTRY STUDY MATERIALS FOR CLASS 10

## (MCQ based on: Periodic Classification of Elements)

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53. Which one of the following elements exhibit maximum number of valence electrons?  
(a) Na                      (b) Al                      (c) Si                      **(d) P**
54. Which of the following gives the correct increasing order of the atomic radii of O, F and N ? [NCERT Exemplar Problems]  
(a) O, F, N              (b) N, F, O              (c) O, N, F              **(d) F, O, N**
55. Which among the following elements has the largest atomic radii?  
(a) Na                      (b) Mg                      **(c) K**                      (d) Ca
56. Which of the following elements does not lose an electron easily?  
(a) Na                      **(b) F**                      (c) Mg                      (d) Al
57. Which of the following elements will form an acidic oxide?  
**(a) An element with atomic number 7** (b) An element with atomic number 3  
(c) An element with atomic number 12 (d) An element with atomic number 19
58. The element with atomic number 14 is hard and forms acidic oxide and a covalent halide. To which of the following categories does the element belong?  
(a) Metal              **(b) Metalloid**              (c) Non-metal              (d) Left-hand side element
59. Which one of the following does not increase while moving down the group of the periodic table?  
(a) Atomic radius                      (b) Metallic character  
**(c) Valence electrons**                      (d) Number of shells in an element
60. Which of the following set of elements is written in order of their increasing metallic character?  
**(a) Ba Mg Ca** (b) Na Li K (c) Mg Al Si (d) C O N

61. Which of the following is most reactive

- (a) Li                      (b) H                      (c) Na                      **(d) K**

**Explanation:** (d) K is most reactive due to larger size, can lose electron easily.

62. Which of the following is most reactive?

- (a) F<sub>2</sub>**                      (b) Cl<sub>2</sub>                      (c) Br<sub>2</sub>                      (d) I<sub>2</sub>

**Explanation:**

(a) F<sub>2</sub> is most reactive because it is smaller in size and can gain electron easily.

63. Chlorine (17) belongs to which group and period

- (a) 7, 3                      **(b) 17, 3**                      (c) 1, 3                      (d) 16, 3

**Explanation:** (b) Cl (17) 2, 8, 7 belongs to group 17 and 3rd period

64. Silicon (14) belongs to class of

- (a) Metal                      (b) Non-metal                      **(c) Metalloids**                      (d) Ionic compound

65. Which of the following is non-metal and to which group does it belong?

- (a) Lead                      (b) Gallium                      **(c) Bromine**                      (d) Cadmium

**Explanation:** (c) Bromine is a non-metal, belongs to group 17.

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