

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) F₂** (b) Cl₂ (c) Br₂ (d) I₂

Explanation:

(a) F₂ 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.
