



SMART TEST SERIES

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Name:		Subject:	Chemistry-12
Roll # :		Unit(s):	3,
Class:	Inter Part-II	Test:	Type 8 - Short Test (No Choice) - Marks=30
Date:		Time:	

Q.1 Circle the Correct Answers.

(6x1=6)

- The chief ore of aluminum is:
(A) Na_3AlF_6 (B) $Al_2O_3 \cdot 2H_2O$ (C) Al_2O_3 (D) $Al_2O_3 \cdot H_2O$
- Borax has the chemical formula:
(A) KNO_3 (B) $NaNO_3$ (C) $Na_2B_4O_7 \cdot 10H_2O$ (D) $Na_2CO_3 \cdot H_2O$
- Aluminum oxide is:
(A) Acidic oxide (B) Basic oxide (C) Amphoteric oxide (D) None of these
- Which electronic configuration corresponds to an element of group III-A of the Periodic Table?
(A) $1s^2, 2s^2, 2p^6, 3s^2, 3p^1$ (B) $1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 4s^6$ (C) $1s^2, 2s^2, 2p^6$
(D) $1s^2, 2s^2, 2p^6, 3s^2, 3p^3$
- Which element among the following belongs to group IV-A of the Periodic table:
(A) Barium (B) Iodine (C) Lead (D) Oxygen
- Chemical formula of litharge is:
(A) Pb_2O (B) SiO_2 (C) PbO (D) Pb_3O_4

Q.2 Write short answers of the following questions.

(8x2=16)

- Write down the chemical formulae of minerals. (a) Kaolin (b) Cryolite
- Write the reaction of Borax with H_2SO_4 ?
- Justify the solubility of borax changes with temperature.
- Write formulas of colemanite and Bauxite.
- Write equations for the reactions of orthoboric acid with (a) Ethyl alcohol (b) Na_2CO_3
- Aluminium is not found in free state give reason.
- What are silicones, Give an example?
- Give a brief summary of the principal properties of silicones.

NOTE: Attempt the long question.

(4+4=8)

- Define semi-conductors. Give example. Write two properties and two uses of semi-conductors.
- Explain (i) Borax Bead Test with its chemistry. (ii) Discuss effect of heat on boric acid