



SMART TEST SERIES

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Name:		Subject:	Chemistry-12
Roll # :		Unit(s):	3,
Class:	Inter Part-II	Test:	Type 3 - MCQs + SQs Test - Marks=30
Date:		Time:	

Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (10x1=10)

- The chief ore of aluminum is:
(A) Na_3AlF_6 (B) $Al_2O_3 \cdot 2H_2O$ (C) Al_2O_3 (D) $Al_2O_3 \cdot H_2O$
- Tinical is a mineral of:
(A) Al (B) C (C) Si (D) B
- Which is used in the leather industry?
(A) Borax (B) Boric acid (C) Boric oxide (D) Tetra Boric acid
- Borax has the chemical formula:
(A) KNO_3 (B) $NaNO_3$ (C) $Na_2B_4O_7 \cdot 10H_2O$ (D) $Na_2CO_3 \cdot H_2O$
- Boric acid cannot be used:
(A) As antiseptic in medicine (B) For washing eyes (C) In soda bottles
(D) For Enamals and Glazes
- _____ element forms an ion with charge 3+:
(A) Beryllium (B) Aluminum (C) Carbon (D) Silicon
- Which one of following is used in cosmetics?
(A) Talc (B) Asbestos (C) Sodium sulphate (D) Aluminum Sulphate
- Chemical composition of colemanite is:
(A) $Ca_2B_6O_{11} \cdot 5H_2O$ (B) $CaB_4O_7 \cdot 4H_2O$ (C) $Na_2B_4O_7 \cdot 4H_2O$ (D) $CaNaB_5O_9 \cdot 8H_2O$
- 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 of the following elements is not present abundantly in earth's crust?
(A) Silicon (B) Aluminum (C) Sodium (D) Oxygen

Q.2 Write short answers of the following questions.

(10x2=20)

- How will you prepare Borax from colemanite and Boric acid?
- Write the reaction of Borax with H_2SO_4 ?
- Give the formulas of four boric acids with names?
- Why boric acid can't be titrated by NaOH?
- How is boric acid prepared in laboratory?
- Give balanced equations to represent the following reactions: (a) Borax is heated with CaO (b) Al_2O_3 is heated with NaOH solution
- Write down chemical formulae of minerals. (i) Emerald (ii) Gibbsite
- Give equation when Al_2O_3 is heated with NaOH solution.
- Why CO_2 is acidic in character?
- How semiconductors are used in Transistors?