

Name: _____						
Subject: Chemistry		Class: 12 th		Time: 60 minutes		
Chapter No.3		MJDexpert.com			Total Marks:	30
				Obtained marks		

Note: Please attempt any 8 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct answer by filling the appropriate circle. (8x1=8)

- Chemical garden is formed by using compound**
(A) Sodium carbonate (B) Sodium Silicate (C) Asbestos (D) Soap stone
- Chemical formula of colemanite is**
(A) $\text{Ca}_2\text{B}_6\text{O}_{11} \cdot 5\text{H}_2\text{O}$ (B) $\text{CaB}_4\text{O}_{12} \cdot 4\text{H}_2\text{O}$ (C) $\text{Na}_2\text{B}_4\text{O}_7 \cdot 4\text{H}_2\text{O}$ (D) $\text{CaNaB}_5\text{O}_9 \cdot 8\text{H}_2\text{O}$
- Tincal is mineral of**
(A) Al (B) B (C) Si (D) C
- If the temperature dropped from 100 °C to 0°C, the viscosity of petroleum oil may**
(A) Increase four times (B) Decrease four times
(C) Increase 100 times (D) Decrease 100 times
- Which metal is used in the thermit process because of its activity**
(A) Fe (B) Cu (C) Al (D) Zn
- The aqueous solution of borax is:**
(a) Alkaline (b) Acidic (c) Amphoteric (d) Neutral
- When HBO_3 reacts with NaOH , salt mostly formed is**
(a) Na_3BO_3 (b) $\text{Na}_2\text{B}_4\text{O}_7$ (c) NaH_2BO_3 (d) NaBO_2
- Forms an ion with +3 charge**
(a) Beryllium (b) Aluminum (c) Carbon (d) Silicon

Subjective-Section

Q.2 Write short answers of any eight (8) of the following questions: (8x2=16)

- Give the formulas as followings (i) tincal (ii) Mica
- Write the formulas of four boric acids.
- Why aqueous solution of borax turns litmus paper into blue?
- How Borax is used as a water softening agent?
- Give balanced chemical reactions of boric acid with (a) Ethyl alcohol (b) Sodium hydroxide
- Why is CO_2 a gas at room temperature while SiO_2 is solid?
- What are silicones? Give an example
- What are semiconductors? Give their two applications.
- Why do semiconductors conduct electricity better than insulators?

Q.No.3 Long Question: (4+4=8)

- What are Silicones? Write their four uses
- Give properties and uses of Borax