



DELHI PUBLIC SCHOOL FIROZABAD

(Under the aegis of Delhi Public School Society, East of Kailash, New Delhi)

(A senior secondary school)

Affiliated to C.B.S.E New DELHI



JANUARY WORKSHEET NO. 2

Class- XI

Date- 18/1/2022

Name-

Subject- Chemistry

Roll No.-

Chapter- The s-Block Elements

Answer the following questions:

1. Find out the oxidation state of sodium in Na_2O_2 .
2. Explain why is sodium less reactive than potassium.
3. In what ways lithium shows similarities to magnesium in its chemical behaviour?
4. Why are potassium and caesium, rather than lithium used in photoelectric cells?
5. The hydroxides and carbonates of sodium and potassium are easily soluble in water while the corresponding salts of magnesium and calcium are sparingly soluble in water. Explain.
6. What happens when:
 - (i) Sodium metal is immersed in water?
 - (ii) Sodium metal is heated in free supply of air?
 - (iii) Sodium peroxide gets dissolved in water?
7. Which one of the alkaline earth metal carbonates is thermally the most stable?
(a) MgCO_3 (b) CaCO_3 (c) SrCO_3 (d) BaCO_3 . Why?
8. Why are alkali metals not found in elemental state in nature?
9. Beryllium and magnesium do not give colour to flame whereas other alkaline earth metals do so. Why?
10. Why are lithium salts commonly hydrated and those of the other alkali ions usually anhydrous?