

XI Chemistry Worksheet

Time: 30 min

Ch # 10: The s-Block Elements-03

Full Marks: 20

Instructions:

1. All questions are compulsory.
2. Please give the explanation for the answer where applicable.

Q1 - Lithium has highest ionization energy as compared to other element same group. Why?

(1 Mark)

Q2 - Name the strongest reducing agent alkali metal?

(1 Mark)

Q3 - Write the chemical formula of gypsum?

(1 Mark)

Q4 - Why alkali metals are difficult to reduce?

(2 Marks)

Q5 - Why the alkali metals cannot be isolated by electrolysis of the aqueous solution of their salts?

(2 Marks)

Q6 - Sodium bicarbonate is prepared by Solvay-Ammonia process but Potassium bicarbonate can not. why?

(2 Marks)

Q7 - What happens when

- i) Sodium hydrogen carbonate is heated.
- ii) Carbon dioxide is passed through ammonical brine solution.
- iii) Chlorine reacts with slaked lime.

(3 Marks)

Q8 - Compare alkali metals and alkaline earth metals on the basis of :-

- i) Ionization enthalpy.
- ii) Basicity of oxides.
- iii) Solubility of hydroxides.

(3 Marks)

Q9 - How the chemistry of alkali metals differs from alkaline earth metals? Explain.

(5 Marks)