

DELHI PUBLIC SCHOOL, JAMMU
WEEKLY ASSIGNMENT
SESSION 2017-2018
27-11-2017 to 30-11-2017

CLASS: X

Subject: Chemistry

Q1 How can you test whether a displacement reaction is an exothermic or an endothermic reaction? Explain with suitable example.

Q2 When you mix the solutions of lead (II) nitrate and potassium iodide

- a) What is the colour of the precipitate formed? Name the compound precipitated.
- b) Write the balanced chemical equation for this reaction.
- c) Is this also a double displacement?

Q3 A sulphate salt of group 2 element of the Periodic Table is a white, soft, which can be moulded into different shapes by making its dough. When this compound is left in open for some time, it becomes a solid mass and cannot be used for moulding purposes. Identify the sulphate salt and why does it show such a behavior? Give the reason involved.

Q4 What does slaking of lime stand for? Why is there a hissing sound during this process? Write the chemical equation for the reaction involved.

Q5 Give the steps involved in the extraction of metals of low and medium reactivity from their respective sulphide ores.

Q6 Write chemical equations for the reactions taking place when

- a) Magnesium ribbon is burnt in a jar containing oxygen.
- b) Sodium metal falls into a sink containing water.
- c) Steam is passed over hot aluminium.

Q7 What would be the electron dot structure of carbon dioxide which has the formula, CO_2 ?

Q8 Discuss versatile nature of carbon.

Q9 Give reasons for the following:

- a) Atom is electrically neutral yet it has a tendency to form an ion.
- b) The size of a cation is smaller while that of an anion is larger than the atom from which it is formed.

Q10 what do you understand by the term periodicity? Are the properties of the elements placed in the same group similar? Illustrate.