Girls' High School & College, Prayagraj

Assignment No. : 3

Session : 2020-21

Class : X A, B, C, D, E, F

Subject : Chemistry

INSTRUCTIONS:

The parents to ensure that their ward watches the video instructions for this assignment by clicking on the given links:-

1- https://youtu.be/ucpxB89tVrU

2- https://youtu.be/hQZxpKjxip0

3- https://youtu.be/jOhCMU_p14E

4- https://youtu.be/o33y62912-c

She should revise the lesson given in the book and then work on the assignment. The completed assignment is to be downloaded and filed/pasted in the subject file/copy and kept ready for submission. The day, date and procedure of submission shall be notified later.

Note: Chapters : 1. Study of Hydrogen Chloride

2. Mole concept and Stoichiometry

Book : Concise Chemistry (Class X) by Dr. S. P. Singh (Selina Publication)

Answer the following questions:

STUDY OF HYDROGEN CHLORIDE

1. State one relevant observation for each of the following:
   (a) Dilute HCl is added to sodium carbonate crystals.
   (b) Copper sulphide is treated with dilute hydrochloric acid.
   (c) A few drops of dil. HCl is added to silver nitrate solution, followed by addition of NH_4OH solution.

(d) Lead nitrate solution is mixed with dilute hydrochloric acid and heated.
(e) A rod dipped in NH_4OH solution is brought near a gas jar containing hydrogen chloride gas.

2. Write the chemical equations for the laboratory preparation of HCl gas when the reactants are:
   (a) Below 200 ^{0}C
   (b) Above 200 ^{0}C

NOTE : Refer to Page No. 147 to 149 in your book and do question no. **2 (c, d, e), 3, 4 and 19** in your Chemistry note book along with the questions given above.

MOLE CONCEPT AND STOICHIOMETRY

Answer the following questions:

1. State Avogadro's law.

2. State Gay Lussac's law of combining volumes.

NOTE : Refer to Page No. 97 to 98 in your book and do question no.**28, 32, 34, 40 (a) and 46** in your Chemistry note book along with the questions given above.

END