

**ASSIGNMENT NO:2, DIPLOMA (CHEMICAL ENGG) , III SEM**

**Course: Diploma (CHEMICAL ENGG) , III SEM , DCHE-232      Chemical Technology**

**Assignment no:2**

Due date of submission: 10.11.2016

**Instructions**

- 1. Write the response to the assignment in your own handwriting.**
- 2. Submit the response to your HOD within the due dates**
- 3. Write your name, programmed and enrolment No. clearly at top of the page.**

**Q1.**

- Write the reaction involving the formation Caustic Soda.
- Write the reaction involving the formation Bleaching Powder.

**Q.2-**

- Write Manufacturing process and uses of Portland cement.
- Write the reaction involving the formation of Sulphuric acid

**Course: Diploma (CHEMICAL ENGG) , III SEM , DCHE-233    Heat Transfer**

**Assignment no: 2**

Due date of Admission: 10.11.2016

**Instructions**

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**Q.1**

- A.) Differentiate between nucleate boiling and film boiling.
- B) Explain in detail construction and working of Swenson walker crystallizer.

**Q.2**

- A) Define following terms in evaporation system -
- i) Concentration    ii) Foaming
- iii) Scale            iv) Temperature sensitive material
- B) Explain in detail about natural circular type and forced circulation type evaporator.

**Course: Diploma (CHEMICAL ENGG) , III SEM , Process plant utilities ,DCHE-234**

**Assignment no: 2**

Due date of submission: 10.11.2016

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**Q.1**

- a) . Give Construction and working of Blowers.
- b). Explain sedimentation technique to softening water.

**Q-2**

- a ) Explain Fire tube & water tube and their principles..
- b) .Explain Regeneration of cation and anion exchangers in water treatment system.

**Course: Diploma (CHEMICAL ENGG) , III SEM , MATERIAL AND ENERGY BALANCES, (DCHE-235)**

**Assignment no: 2**

**Due date of submission: 10.11.2016**

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**Q.1**

- A). Define normality and mole fraction.
- B). Differentiate Exothermic and endothermic reaction.

**Q.2**

- A).** A gas mixture contains 0.274 kmol of HCl, 0.337 kmol of N<sub>2</sub> and 0.089 kmol of O<sub>2</sub>. Calculate the average molecular weight of gas.
- B).** Find out mole and equivalent wt of 48 gm of H<sub>2</sub>SO<sub>4</sub>.