Thapar Institute of Engineering and Technology

DEPARTMENT OF CHEMICAL ENGINEERING

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Tute Sheet-9
Crystallization

Q1. 900 kg of ferrous sulphate solution with a solute content of 40% is available, If it is cooled to 10^{o}C, find out the weight of crystal formed and yield of the crystal with the crystal of the form $FeSO_4.7H_2O$.

Q2. A 35% solution of sodium carbonate weighing 6000 kg is cooled to 10^{o}C to yield crystals of $Na_2CO_3.10H_2O$. During cooling 4% by weight of original solution is lost due to vaporization. Find out the weight of crystal formed.