

II B.Tech I Semester Supplementary Examinations, November 2006
INORGANIC CHEMICAL TECHNOLOGY
(Chemical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Distinguish between batch and continuous processes. Write briefly on Batch versus continuous operations. [16]
2. (a) Mention the engineering problems involved in the crystallization process employed for the water conditioning.
(b) Explain the Reverse osmosis process employed for the separation of water from brine. [8+8]
3. (a) What are the various steps adopted in the manufacture of refractories?
(b) Give an account of the properties of silica bricks. [8+8]
4. How lime is manufactured? What are its properties and applications? [16]
5. Enumerate the following
(a) Photochronic Glass
(b) Photo sensitive Glass
(c) Rare earth glass
(d) Safety glass [4x4]
6. (a) Describe how carbon dioxide can be recovered from the furnace gases with a neat diagram.
(b) Write briefly about the liquid carbon dioxide. [12+4]
7. What are different types of processes available for the production of Ammonium sulphate and discuss briefly. [16]
8. (a) Discuss about the radioactive nature of Radium?
(b) Discuss about its applications? [10+6]
