

Code No: RA320807

RA

III B.Tech II Semester Supplementary Examinations, Aug/Sep 2008
FERTILIZER TECHNOLOGY
(Chemical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the proximate analysis of coal and its importance. [16]
2. Explain the merits and demerits of high and low temperature shift conversion processes. [16]
3. What is the nature of ammonia synthesis reaction? Explain in detail with flow sheet, if any. [16]
4. At what temperature is the equilibrium favored in the oxidation of NO to NO_2 , which is a slow reaction? Explain in detail. [16]
5. Explain in detail the modified process for manufacturing nitrolime with a neat flow diagram. [16]
6. Explain in detail the process for the production of a phosphoric acid by HCL leaching with a neat flow diagram. [16]
7. Write about the constitution of potassium in mineral soils? [16]
8. What are the technical features for enhancing the production of the fertilizer plants? [16]
