## 2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

## IV B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS FERTILIZER TECHNOLOGY (CHEMICAL ENGINEERING)

**APR/MAY 2006** 

TIME - 3 HOUR MARK - 80

## **Answer any FIVE Questions All Questions carry equal** marks

1. Explain the ultimate analysis of coal and its importance.	[16]
2. Discuss the importance of catalyst in shift conversion.	[16]
3. (a) What are the Temperature and Pressure conditions in Ammonia converter?	
(b) Give various processes in detail for manufacture of Ammonia.	[10+6]
4. What is Fuming Nitric acid? Explain in detail. [16]	
5. Explain in detail the stengle process for manufacturing of Ammonium nitrate with	
neat flow diagram.	[16]
6. Discuss in detail about the economic evaluation and process for manufacture of	
phosphoric acid.	[16]
7. Explain with a flow sheet the granulation process of the mixed fertilizer? [16]	
8. Make a balance sheet of production economies of typical fertilizer plant?	