

Roll No. ....

Total Pages : 02

**BT-7/M-20**

**37076**

**FERTILIZER TECHNOLOGY (E-1)**

**CHE-423-E/CHE-423-N**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt any *Five* questions.

1. What is the difference between Micro and Macro nutrient grades of fertilizers ? Discuss in detail. Also discuss different methods used for storage of fertilizers. **15**
2. What are different methods of production of synthesis gas ? Explain steam reforming process in detail with the help of a flowsheet. **15**
3. With the help of a detailed flowsheet explain production process of Ammonia. Also give its applications. **15**
4. Write in detail the production process of Calcium Ammonium Nitrate fertilizer. **15**
5. What is Phosphatic Fertilizers ? Discuss flowsheet of Tripple superphosphates with chemical reaction involved. **15**

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6. Give Industrial applications of Phosphoric acid. Discuss any *one* method of production of Phosphoric acid. **15**
7. What is complex NPK fertilizers ? Differentiate Mono ammonium from diammonium phosphate. Also briefly discuss granulation techniques used in fertilizers. **15**
8. Write short notes on Production of Potassium Chloride and Potassium Sulfate. **15**