T.E. I Sem-Chem Chemical Technology (18)

Q.P. Code : . 31084

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[Total Marks: 80

| | N.B. : | (1) Question No. 1 is compulsory. | |
|------------|---|--|----|
| | | (2) Attempt any three questions out of the remaining five. | |
| A | • | (3) Figures to the right indicate full marks. | |
| ADDA.com | | (4) Draw neat flow diagrams wherever required. | |
| ·.c | | Banne vinstovet required. | |
| E | 1. (a) | Describe the manufacturing of soda ash modified Solvay (Dual) process. | |
| | (b) | Discuss the engineering problem involved in the manufacture of hydrochloric acid. | 10 |
| | (c) | | |
| | S | Describe various engineering problem associated during the manufacturing of sulfuric acid. | 6 |
| | | | |
| | 2::-(a) | Explain how and why xylene isomerisation is carried out. | 10 |
| | (b) | Describe the manufacturing of nitric acid from ammonia. | 10 |
| | (-) | | |
| | 3. (a) | Describe the manufacturing process of urea. What are the engineering problems in urea synthesis process? | 10 |
| | ·(b) | Explain the manufacturing of sugar with neat flow diagram. | 10 |
| | 4. (a) | Describe manufacture of single superphosphate. Write down the | |
| | | reactions involved in it. How the byproducts that are generated during this process made harmless? | 10 |
| 5 | (b) | Describe the manufacturing of polyethylene by Ziegler process. | |
| | Marie Control | in persons by Ziogici process. | 10 |
| | 5 (a) | Explain the manufacturing of acetylene by partial oxidaon with neat flow | 10 |
| √nī | | diagram. | 10 |
| muADDA.com | (b) | Describe in detail manufacturing of purified terepthalic acid. | 10 |
| AC | 7 | | 20 |
| .co | 6. Writ | e short notes on (Any Four) | 20 |
| 3 | - T. C. | a) Agrochemicals | |
| | | b) Unit operations and unit processes | |
| | at he ; | c) Reforming and cracking | |
| | Parada and | d) Hydrogenation of oil | |
| | v- · / | a) C | |

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