| Enrolment | No.   |
|-----------|-------|
| Linomene  | 1 10. |

## GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI EXAMINATION – WINTER 2015

| Subject Code:160502Date:17/12/ 2015Subject Name: Chemical Process Industries-IITotal Marks: 70 |                          |   |          |
|--|--------------------------|---|----------|
|  |                          |   |          |
|  | ructio<br>1.<br>2.<br>3. | ns:<br>Attempt all questions.<br>Make suitable assumptions wherever necessary.  |          |
| Q.1  | (a)<br>(b)               | Describe manufacturing process of H-acid in detail.<br>Define dye. Give detail classification of dyes based on their applications giving examples.  | 07<br>07 |
| Q.2  | (a)<br>(b)               | Describe the manufacturing process of Ethyl Alcohol by fermentation route.<br>Also discuss the major engineering problems.<br>Describe manufacturing of sugar from sugar cane with suitable flow sheet? | 07<br>07 |
|  | <b>(b)</b>               | <b>OR</b><br>Describe the production method of aspirin with the help of neat flow diagram.  | 07       |
| Q.3  | (a)<br>(b)               | Explain the manufacturing process of Penicillin with the help of a detailed flow sheet.<br>Write a note on Classification of drugs based on its application.<br><b>OR</b>                               | 07<br>07 |
| Q.3  | (a)<br>(b)               | Define: Antibiotics. Explain in brief about Erythromycin, Streptomycin and with its uses.<br>Write in brief : Barbital and Phenobarbital  | 07<br>07 |
| Q.4  | (a)<br>(b)               | Describe manufacturing of chrome blue black dye with suitable flow diagram?<br>Write short note on Red and Yellow pigments.<br><b>OR</b>  | 07<br>07 |
| Q.4  | (a)<br>(b)               | What is dye intermediate? Discuss production of Nitrobenzene with chemical reactions, flow diagram and its applications.<br>Discuss Aniline production and its application.                             | 07<br>07 |
| Q.5  | (a)<br>(b)               | What is paint and P.V.C. of paint? Write in brief constituents of paint?<br>What are industrial coatings? Explain its applications in brief.  | 07<br>07 |
| Q.5  | (a)<br>(b)               | What are Vitamins? List the essential vitamins for human and write in brief about each.<br>Explain manufacturing process of vinyl sulphone with a neat flow diagram.                                    | 07<br>07 |

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