

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2018

Subject Code:173501

Date:05/05/2018

Subject Name:Chemical Process Technology

Time:02:30 PM to 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write a short note on catalytic reforming. **07**
(b) Explain municipal water treatment process with a neat flow diagram. **07**
- Q.2** (a) Write in brief about nitrobenzene. **07**
(b) Explain manufacturing process of methanol from syn gas with a neat flow diagram. **07**
- OR**
- (b) Explain the manufacturing process of butadiene from n-butadiene with neat flow diagram **07**
- Q.3** (a) Describe manufacturing process of acetic acid. List out major engineering problems. **07**
(b) Explain manufacturing process vinyl chloride with a neat flow diagram. **07**
- OR**
- Q.3** (a) Explain process to manufacture water gas from coal with a neat flow diagram. **07**
(b) Explain crude distillation in detail. **07**
- Q.4** (a) Write a note on phthalic anhydride **07**
(b) Explain manufacturing process of phosphoric acid with a neat flow diagram. **07**
- OR**
- Q.4** (a) Describe manufacturing process of Ethylene. List out major engineering problems. **07**
(b) Explain manufacturing process soda ash with a neat flow diagram. **07**
- Q.5** (a) Describe manufacturing process of Sulphuric Acid. List out major engineering problems. **07**
(b) Write a note on industrial water processing. **07**
- OR**
- Q.5** (a) Write a short note on natural gas. **07**
(b) Explain manufacturing process of aniline from benzene with a neat flow diagram. **07**
