

BITS Pilani, K K Birla Goa Campus
SECOND SEMESTER 2022-2023
CHE F419 Chemical Process Technology
Comprehensive Examination (Closed Book) PART B

DATE: 13/05/2023

Time: 11:00 – 1:00 PM

Maximum Marks: 40

Instructions:

- All parts of a question must be answered at a single place.
- Support your answer with neat sketches and chemical reactions where ever necessary

1. Write the chemical reaction for the following processes (reaction conditions if any). [3 + 5 + 2 = 10 M]
 - a. Provide the reaction for the production of Acetic acid through Cativa Process modified by BP Chemicals?
 - b. State AVADA (Advanced Acetates by Direct Addition) process.
 - c. Provide the reaction for the production of Aniline through Ammonolysis of Phenol.

2. Describe the manufacturing process involved in Starch Industry. [12 M]

3. Provide the comparison of Soaps to Detergents. Elaborate on Detergents. [6 + 5 = 11 M]

4. Identify the process and provide process description for the manufacture of the same. Complete the process flow sheet for the same. [1+ 3 + 3 = 7 M]


