

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

DATE: 13/05/2023 Time: 10:00 – 12:00 (noon) 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+ 4 + 3 = 10 M]
 - a. The reactions involved in the production of Isopropanol.
 - b. Reactions involved in the Steam Cracking of Petroleum Hydrocarbons.
 - c. The side reactions involved in the manufacture of Methanol.

2. How are Ammonia synthesis reactors classified? [5 M]

3. Describe process technology for the manufacture of Formaldehyde. [11 M]

4. Identify the following manufacturing process and mention the missing components on the flow sheet for the manufacture of the same as a, b, c and so on. [14 M]


