Reg. No.					



Makeup EXAMINATIONS, NOV/DEC 2018

SUBJECT: CHEMICAL PROCESS INDUSTRIES [CHE3104] REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitable assumed.

1A.	Explain the manufacture of rubber with the help of neat diagram.	3			
1B.	Clearly explain the manufacture of urea with a help of neat flow diagram.				
1C.	Draw a neat flow diagram for the manufacture of air and clearly explain the manufacture of paper (each step separately).				
2A.	With the help of a neat flow diagram explain the manufacture of nylon.	3			
2B.	Define Fermentation. Explain the role of main elements in the cell growth.	4 (1+3)			
2C.	Draw the flow chart and explain the manufacture of acetone using fermentation process.	3			
3A.	Define pulp. Clearly explain various methods of pulp production.				
3B.	Draw a neat flow diagram of petroleum refining process and explain any six units in the process.				
3C.	What is syngas? Explain any two preparation methods for producing syngas.	3			
4A.	Draw a neat diagram and with the reaction equations explain the manufacture of NaOH from diaphragm process.				
4B.	Clearly explain the modified Haber and Bosch process with the help of a neat flow diagram.				
4C.	Explain the Den's process and write about the handling, storage and kinetics issues in this manufacture process (No diagram needed).				
5A.	Clearly explain with the help of a neat flow diagram the purification process of CO ₂ (both processes).				
5B.	With the help of neat diagram explain clearly the manufacture of Rayon.	4			
5C.	Explain the lead-chamber process for the manufacture of H ₂ SO ₄ with the help of flow diagram and reaction equations.	3			