

III B.Tech I Semester Supplementary Examinations, May 2005
PETROCHEMICAL ENGINEERING
(Chemical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) List the important commercial products obtained from petroleum.
(b) Give the approximate boiling ranges of these commercial products.
2. (a) What is a stabilizer?
(b) How do you separate butane from Refinery gases.
(c) What are the uses of butane.
3. (a) What is kinetic severity factor?
(b) How does it influence the yield of ethylene?
(c) How do you decrease the partial pressure of a component in a cracker.
4. Explain with a flow sheet the working of petrochemical complex.
5. (a) Butane is available in plenty in the refinery operations. How do you separate it?
(b) Describe the process of dehydrogenation of butane.
6. (a) What is wax.
(b) How is wax produced in petroleum industry?
7. (a) Name some higher olefins directly used in detergent industry.
(b) Describe the process of chlorination of olefins.
8. Describe how terephthalic acid is produced from p-xylene.
