



**RAMRAO ADIK INSTITUTE OF TECHNOLOGY,
NERUL, NAVI MUMBAI
(Dept. of Engineering Science)**

Term Test No. 1

F.E.SEM-II

Duration-1hr

Applied Chemistry II

Max.Marks-30

Note: i) Attempt any three questions from the following.

ii) Each question carries 10 marks.

- Q 1 What is crude oil? Describe refining of petroleum with various fractions?
- Q2 How will you determine the following from coal? Give their significance.
- a) % of Volatile matter
 - b) % of Nitrogen
 - c) % of moisture
- Q3 What is cracking? Explain fixed bed catalytic cracking with flow diagram?
- Q4 Distinguish between Octane number & Cetane number?
- Q5 Explain the method to obtain Biodiesel form vegetable oil & Give advantages of biodiesel.
- Q6 Write short note on: (any two)
- a) Power alcohol
 - b) Unleaded petrol
 - c) Knocking

Sheth