

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-V • EXAMINATION – WINTER • 2014

Subject Code: 350503

Date: 02-12-2014

Subject Name: Petroleum Refining and Petrochemical Technology

Time: 10:30 am - 01:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- Q.1** (a) Write the development of Petrochemical industry in Gujarat & in india. **07**
(b) Classify Petroleum with composition. **07**
- Q.2** (a) State the properties of Petrol, Diesel and Kerosene. **07**
(b) Explain Straight Run distillation of Crude oil. **07**
OR
(b) Describe Dehydration and Desalting of crude oil. **07**
- Q.3** (a) Write the purpose of Cracking and purpose of Reforming. **07**
(b) Explain Duo sol extraction process with neat figure. **07**
OR
- Q.3** (a) Describe Catalytic Cracking by Fluidisedbed. **07**
(b) Differentiate Furfural extraction & Phenol extraction method. **07**
- Q.4** (a) State the method of Dewaxing. Explain any one with neat flow diagram. **07**
(b) Describe the manufacturing process of Methanol with neat flow diagram. **07**
OR
- Q.4** (a) List out various method of sulfur removal. Describe Doctor sweetening method. **07**
(b) How dewaxing done without solvent. **07**
- Q.5** (a) Write Chemicals from Aromatics. **07**
(b) Describe the manufacturing process of Formaldehyde with flow diagram. **07**
OR
- Q.5** (a) Describe the manufacturing process of Ethylene dichloride with flow diagram **07**
(b) Describe the manufacturing process of Polypropylene with flow diagram **07**
