

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – VI • EXAMINATION – SUMMER 2016

Subject Code: 340503**Date: 17/05/2016****Subject Name: Chemical Process Technology - II****Time: 10:30 AM to 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. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1** (a) Define oil & Write its physical properties and chemical. **07**
(b) Explain manufacture of dextrin from starch **07**
- Q.2** (a) Explains Kraft process for pulp making with figure **07**
(b) Explain Hydrogenation of Oil. **07**
- OR
- (b) Explain manufacturing of vegetable oil by Solvent extraction method with process flow sheet. **07**
- Q.3** (a) State Classification of Pesticides **07**
(b) Explain manufacturing process of Sugar from Sugarcane with Flow Sheet **07**
- OR
- Q.3** (a) What is fuel? Write short note on industrial gases. **07**
(b) Describe manufacturing process of coke oven gas with neat flow diagram **07**
- Q.4** (a) Describe manufacturing process of ethyl alcohol by fermentation **07**
(b) What are the types of rubber? Explain vulcanization of rubber **07**
- OR
- Q.4** (a) Write a short note on fermentation? Explain types of fermentation with suitable examples **07**
(b) Discuss major engineering problems of paper industries **07**
- Q.5** (a) Differentiate Natural rubber & Synthetic rubber. **07**
(b) Differentiate between sulfite Kraft and sulphite methods **07**
- OR
- Q.5** (a) Explain production of bromine from sea water **07**
(b) Write manufacturing of paints from pigments **07**
