

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – WINTER - 2016

Subject Code: 340503**Date: 22-11 -2016****Subject Name: CHEMICAL PROCESS TECHNOLOGY-II****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- | | | |
|------------|--|-----------|
| Q.1 | (a) Describe the method of extraction of vegetable oil by mechanical and solvent extraction. | 07 |
| | (b) Explain the manufacturing of paints from pigment. | 07 |
| Q.2 | (a) Write short note on hydrogenation of oil. | 07 |
| | (b) Explain the manufacturing process of starch from maize. | 07 |
| | OR | |
| | (b) Explain the major engineering problems of paper industries. | 07 |
| Q.3 | (a) Explain the manufacturing process of coke oven gas. | 07 |
| | (b) Explain the manufacturing of lactic acid from corn sugar. | 07 |
| | OR | |
| Q.3 | (a) Explain the manufacturing of ethyl alcohol by fermentation process. | 07 |
| | (b) Give the classification of industrial gases and explain one of its. | 07 |
| Q.4 | (a) Explain the manufacturing process of DDT with flow diagram. | 07 |
| | (b) Explain the manufacturing process of fruit juice with flow diagram. | 07 |
| | OR | |
| Q.4 | (a) Define and explain in detail of pesticides . | 07 |
| | (b) Explain the manufacturing process of ice cream with flow diagram. | 07 |
| Q.5 | (a) Define and explain of rubber .Explain the vulcanization of rubber. | 07 |
| | (b) Explain the manufacturing process of bromine from sea water. | 07 |
| | OR | |
| Q.5 | (a) Discuss different dairy products. | 07 |
| | (b) Write the difference between natural rubber and synthetic rubber. | 07 |
