Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering Semester –IV Examination Dec. - 2011

Subject code: 340503 Date: 08/12/2011 **Subject Name: Chemical Process Technology-II** Time: 10.30 am - 1.00 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 Authentic. Q-1 (a) Explain Paints & Varnishes. (7) (b) Classify Fuels. **(7)** Q-2 (a) Explains manufactures of vegetable oil by solvent extraction method. **(7)** (b) Define oil & Write its physical properties. **(7)** (b) Explain major engineering problems in manufacturing of coke oven gas. (7) Q-3 (a) Explain manufacture of sugar from sugar-cane with flow diagram. **(7)** (b) Discuss the major engineering problems in sugar manufacturing. **(7)** Q-3 (a)Explains kraft process for pulp making with figure. **(7)** (b)Explain Industrial gases. **(7)** Q-4 (a) Explain Production of ethyl alcohol by fermentation. (7) (b)Explain manufacture of ice-cream. (7) Q-4 (a)State Classification of Pesticides. **(7)** (b)Differentiate Natural rubber & Synthetic rubber. **(7)** Q-5 (a) Discuss the Production of bromine from sea-water. **(7)** (b)Discuss three methods of pulp production. (7) OR Q-5 (a) Write a note on chemicals from sea. **(7)** (b)Explain production of citric acid from molasses. **(7)** 

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