

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B E Sem-VI Examination May 2011

Subject code: 160502

Subject Name: Chemical Process Industries-II

Date: 17/05/2011

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.

- Q.1** (a) What is inversion of cane sugar? How it can be prevented? **07**
(b) What is dye? Classify dye based on its application? **07**
- Q.2** (a) Describe manufacturing of chrome blue black dye with suitable flow diagram? **07**
(b) Write in brief : Barbitol and Phenobarbital **07**
- OR**
- (b) Explain manufacturing of H-acid? **07**
- Q.3** (a) Describe manufacturing of sugar from sugar cane with suitable flow sheet? **07**
(b) Write in brief: Classification of drugs based on its application? **07**
- OR**
- Q.3** (a) What is pigment? Describe manufacturing of Titanium dioxide (white pigment)? **07**
(b) What is paint and P.V.C. of paint? Write in brief constituents of paint? **07**
- Q.4** (a) Write a short note on Vitamins? **07**
(b) Describe in brief: red pigment and blue pigment. **07**
- OR**
- Q.4** (a) Write about manufacturing of vat dyes with suitable flow diagram? **07**
(b) Write a short note on industrial alcohol manufacturing process? **07**
- Q.5** (a) Define following: (1) fermentation (2) sterilization **07**
(3) Absolute alcohol (4) Antibiotic (5) Auxochrome
(6) Chromogen (7) analgesics drug
(b) Explain manufacturing of beer with suitable flow sheet? **07**
- OR**
- Q.5** (a) Describe:-Citric acid production by fermentation method? **07**
(b) Explain manufacturing of aspirin with suitable flow sheet? **07**
