

**GUJARAT TECHNOLOGICAL UNIVERSITY**
BE SEMESTER-VI (OLD) • EXAMINATION – WINTER – 2017**Subject Code: 160502****Date: 20-11-2017****Subject Name: CHEMICAL PROCESS INDUSTRIES - 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. Draw neat diagram where necessary.

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