

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 160502

Date: 21-05-2014

Subject Name: Chemical Process Industries - II

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) Discuss classification of Dyes based on their application. **07**

Q-1(b) Discuss manufacture of Nitrobenzene with neat sketch. **07**

Q-2(a) What is drug ? Discuss classification of various pharmaceutical products with examples. **07**

Q-2(b) Discuss manufacturing process of H-acid with neat diagram. **07**

OR

Q-2(b) Discuss manufacturing process of Vinyl sulphone with neat diagram. **07**

Q-3 (a) Discuss manufacture of sugar from sugar cane with neat sketch. **07**

Q-3 (b) Write short note on : Role of Vitamins in human life. **07**

OR

Q-3(a) Define "antibiotic". Discuss with neat diagram manufacture of Penicillin. **07**

Q-3(b) With neat sketch and chemical reactions, discuss production of Aspirin. **07**

Q-4(a) Describe in detail, any white pigment. **07**

Q-4(b) Describe constituents and application of industrial coatings. **07**

OR

Q-4(a) Write short-note on blue and yellow pigments. **07**

Q-4(b) Write brief note on : Varnishes and printing inks. **07**

Q-5(a) Discuss production of industrial alcohol by fermentation process. **07**

Q-5(b) With neat flow diagram, discuss manufacture of beer. **07**

OR

Q-5(a) Describe manufacturing process of citric acid by fermentation process. **07**

Q-5(b) How Butyl alcohol is produced ? Discuss in detail. **07**
