

Seat No.: _____
No. _____

Enrolment

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-IV • EXAMINATION – WINTER • 2014

Subject Code: 340501

Date: 25-11-2014

Subject Name: Dyes and Pharmaceuticals

Time: 02:30 pm - 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. English version is considered to be Authentic.

- Q.1** (a) History and growth of Synthetic dyestuff industry in India. **07**
(b) Write down characteristics of pharmaceutical industry **07**
- Q.2** (a) What is dye? Explain colour phenomenon in dyes. **07**
(b) Discuss about various unit processes involved in the manufacturing of dyes in brief **07**
- OR
- (b) Explain the manufacturing process of Vat dye with neat flow chart. **07**
- Q.3** (a) Explain the manufacturing process of Indigo dye with neat flow chart. **07**
(b) Write a short note on Dispersed dyes. **07**
- OR
- Q.3** (a) Explain the manufacturing process of Indigo dye with neat flow chart. **07**
(b) Discuss methods for treatment of dyestuff pollutants. **07**
- Q.4** (a) Write short note on Sulpha drugs. **07**
(b) What are the scopes of pharmaceutical industry in Gujarat? **07**
- OR
- Q. 4** (a) Classify and describe Anesthetics. **07**
(b) Write a short note on Anti T.B. and Antimalarial drugs. **07**
- Q.5** (a) Describe manufacturing of penicillin with flow diagram **07**
(b) Classify drugs as per their therapeutic use. **07**
- OR
- Q.5** (a) Write structure, properties and application of vitamin A and C. **07**
(b) Explain Reactor systems & raw materials of drugs. **07**
