Seat No.:	Enrolment
No	

	Dipl	GUJARAT TECHNOLOGICAL UNIVERSITY oma Engineering - SEMESTER-IV • EXAMINATION – WINTER • 2014	
Subject Code: 340501 Date: 25-11-201			
Su Ti	bject me: 0 truction 1. 2.	Name: Dyes and Pharmaceuticals 2:30 pm - 05:00 pm Total Marks: 70 ns: Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	History and growth of Synthetic dyestuff industry in India. Write down characteristics of pharmaceutical industry	07 07
Q.2	(a) (b)	What is dye? Explain colour phenomenon in dyes. Discuss about various unit processes involved in the manufacturing of dyes in brief	07 07
	(1.)	OR CW1	0.5
	(b)	Explain the manufacturing process of Vat dye with neat flow chart.	07
Q.3	(a) (b)	Explain the manufacturing process of Indigo dye with neat flow chart. Write a short note on Dispersed dyes. OR	07 07
Q.3	(a) (b)	Explain the manufacturing process of Indigo dye with neat flow chart. Discuss methods for treatment of dyestuff pollutants.	07 07
Q.4	(a) (b)	Write short note on Sulpha drugs. What are the scopes of pharmaceutical industry in Gujarat? OR	07 07
Q. 4	(a) (b)	Classify and describe Anesthetics. Write a short note on Anti T.B. and Antimalerial drugs.	07 07
Q.5	(a)	Describe manufacturing of penicillin with flow diagram	07

Write structure, properties and application of vitamin A and C.

OR

Classify drugs as per their therapeutic use.

Explain Reactor systems & raw materials of drugs.

(b)

(a)

(b)

Q.5

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