Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY M.Pharm Semester -II Examination Dec. - 2011

Subject code: 920101 Subject Name: Advanced Organic Chemistry-II Time: 10.30 am – 01.30 pm		me: Advanced Organic Chemistry-II	Date: 08/12/2011 Total Marks: 80	
Instru	2. Ma	tempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.		
Q.1	(a) (b) (c)	Write the asymmetric synthesis of atenolol Write a note on allylic rearrangement Write a note on racemic switches	06 05 05	
Q.2	(a) (b) (c)	Give importance role of stereochemistry in pharmacokinetics and pharmacodynamics Give principle and application of ultrasound reaction Write a note on optical isomerism with suitable examples	06 05 05	
Q.3	(a) (b) (c)	What is nanochemistry and application of nanochemistry Discuss in detail about synthon approach for pyrimethamine What is conformational isomerism and write the conformation of n-butane	06 05 05	
Q.4	(a) (b) (c)	Discuss in detail principle, mechanism and application of microwave synthesis Write a note on resolution of racemic mixture Write in detail mechanism and application of swern oxidation	06 05 05	
Q.5	(a) (b) (c)	What is green chemistry? Why its needed and application of green chemistry Give synthon approach for ibuprofen Write a note on pinner reaction	06 05 05	

(b) Give the asymmetric synthesis of l-ascorbic acid 05 What do you mean by reformatsky reaction and give the application (c)

Define: Synthon and Functional Group Interconversion and give

Write the synthesis of captropil from 2-methyl acryllic acid with

Give the mechanism and application of Dimorth rearrangement

Discuss in detail about method of resolution of recemic mixture

general rules and guidelines for disconnection

Q. 6

0.7

(a)

(b)

(c)

(a)

mechanism

05

06

05

05

06
