

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. PHARM. - SEMESTER - IV • EXAMINATION - WINTER 2012**

**Subject code: 240005****Date: 03/01/2013****Subject Name: Pharmacology-I****Time: 02.30 pm - 05.30 pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Enlist basic processes involved in pharmacokinetics. Explain various factors affecting biotransformation of drugs.	06
	(b)	Discuss advantages and disadvantages of local route of administration.	05
	(c)	Write a note on active transport.	05
Q.2	(a)	Classify parasympathomimetics. Write M/A and therapeutic uses of Ach.	06
	(b)	Explain various factors modifying drug action.	05
	(c)	Discuss the importance of SAR.	05
Q.3	(a)	Explain various processes of excretion of drugs by kidney.	06
	(b)	Explain bioavailability and its significance.	05
	(c)	Write a note on apparent volume of distribution.	05
Q.4	(a)	Enlist various types of drug interactions. Write in detail on pharmacokinetic drug interaction.	06
	(b)	Write pharmacological actions of atropine and symptoms of its poisoning.	05
	(c)	Explain Dale's vasomotor reversal phenomenon.	05
Q.5	(a)	Enlist types of receptors. Write on G-protein coupled receptor.	06
	(b)	Dwell upon animal toxicity tests in detail.	05
	(c)	Write therapeutic uses of propranolol.	05
Q.6	(a)	Classify neuromuscular blockers. Write on M/A and uses of d-tubocurarine.	06
	(b)	Enlist autecoids. Write pharmacological actions of 5-HT.	05
	(c)	Write a note on adverse drug reactions.	05
Q.7	(a)	Classify local anaesthetics. Write their characteristics and mechanism of actions.	06
	(b)	Write therapeutic uses and side effects of alpha-adrenergic blockers.	05
	(c)	Write a note on prostaglandins.	05

# Gtu Semester 4 Exam Paper Solution

**Richard Bailey**



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## **Table of Contents Gtu Semester 4 Exam Paper Solution**

1. Understanding the eBook Gtu Semester 4 Exam Paper Solution
  - The Rise of Digital Reading Gtu Semester 4 Exam Paper Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Gtu Semester 4 Exam Paper Solution
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gtu Semester 4 Exam Paper Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gtu Semester 4 Exam Paper Solution
  - Personalized Recommendations

- Gtu Semester 4 Exam Paper Solution User Reviews and Ratings
- Gtu Semester 4 Exam Paper Solution and Bestseller Lists
- 5. Accessing Gtu Semester 4 Exam Paper Solution Free and Paid eBooks
  - Gtu Semester 4 Exam Paper Solution Public Domain eBooks
  - Gtu Semester 4 Exam Paper Solution eBook Subscription Services
  - Gtu Semester 4 Exam Paper Solution Budget-Friendly Options
- 6. Navigating Gtu Semester 4 Exam Paper Solution eBook Formats
  - ePub, PDF, MOBI, and More
  - Gtu Semester 4 Exam Paper Solution Compatibility with Devices
  - Gtu Semester 4 Exam Paper Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gtu Semester 4 Exam Paper Solution
  - Highlighting and Note-Taking Gtu Semester 4 Exam Paper Solution
  - Interactive Elements Gtu Semester 4 Exam Paper Solution
- 8. Staying Engaged with Gtu Semester 4 Exam Paper Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gtu Semester 4 Exam Paper Solution
- 9. Balancing eBooks and Physical Books Gtu Semester 4 Exam Paper Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gtu Semester 4 Exam Paper Solution
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Gtu Semester 4 Exam Paper Solution
  - Setting Reading Goals Gtu Semester 4 Exam Paper Solution
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gtu Semester 4 Exam Paper Solution
  - Fact-Checking eBook Content of Gtu Semester 4 Exam Paper Solution

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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