

Seat No.:-----

Enrolment No.:-----

UKA TARSADIA UNIVERSITY  
Maliba Pharmacy College  
B. Pharm 5<sup>th</sup> Semester Internal Examination 2013 (*Mid-Sem 2*)  
**030020502- Medicinal Chemistry-I**

Time: 10:30 a.m. To 12:30 p.m.

Max. Marks: **40**

Date: 25/10/2013

**Instructions:**

- Attempt any **FIVE** questions.
- Each question carries **08** marks.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

- |     |    |   |   |
|-----|----|---|---|
| Q.1 | A) | What are soft drugs and give its applications                                       | 4 |
|     | B) | Classify antacid and give its mechanism of action                                   | 4 |
| Q.2 | A) | Classify laxatives based on mechanism of action and give examples                   | 4 |
|     | B) | What are prokinetics, its advantages, and classify it with examples                 | 4 |
| Q.3 | A) | Give the synthesis of following drugs and their uses ( <b>any two</b> ).            | 4 |
|     |    | 1. Dicyclomine, 2. Propranolol, 3. Salbutamol, 4. Diphenhydramine                   |   |
|     | B) | Give one example (structure) each for following class of drugs ( <b>any four</b> ). | 4 |
|     |    | 1. Serotonin reuptake inhibitor,  |   |
|     |    | 2. H <sub>2</sub> -antagonist with thiazole ring and sulfonamide moiety,            |   |
|     |    | 3. Topical H <sub>1</sub> -antihistamine  |   |
|     |    | 4. Tricyclic H <sub>1</sub> -antihistamine  |   |
|     |    | 5. H <sub>1</sub> -antihistamine (2 <sup>nd</sup> generation) with cardiotoxicity   |   |
|     |    | 6. Prodrug of dopamine  |   |
| Q.4 | A) | SAR of phenylethanolamine adrenergic agonists                                       | 4 |
|     | B) | Write a short note on H <sub>2</sub> -antihistamine                                 | 4 |
| Q.5 | A) | SAR of H <sub>1</sub> -antihistamine  | 4 |
|     | B) | Give structure and uses for following drugs ( <b>any four</b> )                     | 4 |
|     |    | 1. Cyproheptadine, 2. Ondansetron, 3. Tolcapone, 4. Metoclopramide,                 |   |
|     |    | 5. Paracetamol, 6. Parlidoxime  |   |
| Q.6 | A) | SAR of anticholinergics   | 4 |
|     | B) | Write a short note on anticholinesterase  | 4 |
| Q.7 | A) | Write a short note on drugs used in treatment of dry and wet cough                  | 4 |
|     | B) | Give two examples (with structures) for following class of drugs ( <b>any two</b> ) | 4 |
|     |    | 1. Drugs used in Parkinson disease  |   |
|     |    | 2. COX inhibitors   |   |
|     |    | 3. Serotonergic agonist   |   |
|     |    | 4. H <sub>1</sub> -antihistamine (2 <sup>nd</sup> Generation)                       |   |