

# GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – V • EXAMINATION – WINTER – 2015

Subject Code: 2250005

Date: 19/12/2015

Subject Name: Pharmacology and Pharmacotherapeutics I

Time: 10.30 AM to 1.30 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) Write about divisions, organization and functions of autonomic nervous system. **06**  
(b) Classify parasympathomimetics. Write their therapeutic uses. **05**  
(c) Define local anaesthetics with two examples and discuss their general characteristics and mechanism of action. **05**
- Q.2** (a) Discuss complete pharmacology of atropine. **06**  
(b) Write a note on ganglion stimulants. **05**  
(c) Discuss pharmacological actions of histamine. **05**
- Q.3** (a) Classify sympathomimetics by several ways. Write their therapeutic uses. **06**  
(b) Write a note on propranolol. **05**  
(c) Write about methylxanthines. **05**
- Q.4** (a) Classify laxatives and purgatives. Write mechanism of action of any one class involved in it. **06**  
(b) Write about synthesis and distribution of 5-HT. Add a note on 5-HT receptors. **05**  
(c) Write a note on 5-HT antagonists. **05**
- Q.5** (a) Write a note on antitussives and expectorants. **06**  
(b) Discuss pharmacological actions and therapeutic uses of prostaglandins. **05**  
(c) Define antiemetics. Give names of drugs involved in this class along with their involvement with receptors. **05**
- Q.6** (a) Write about etiology, pathophysiology and treatment of GERD. **06**  
(b) Discuss various pathophysiological aspects of inflammatory bowel disease. **05**  
(c) Classify antihistaminics. Write their therapeutic uses. **05**
- Q.7** (a) Classify skeletal muscle relaxant drugs. Discuss mechanism of action of any one class involved in it. **06**  
(b) Write pharmacological actions of sympathomimetics on CVS, respiratory system, GI tract and eye. **05**  
(c) Write about pathophysiology, types, symptoms, diagnosis and treatment of glaucoma. **05**

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