

**PY-505**

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**B. Pharm. (Fifth Semester)  
EXAMINATION, June, 2010**

**PHARMACOLOGY – I**

**(PY-505)**

*Time : Three Hours*

*Maximum Marks : 70*

**Note :** Attempt any *five* questions. All questions carry equal marks.

1. Discuss in detail about various factors modifying drug action.
2. Explain different molecular mechanism of drug action with suitable examples.
3. Classify adrenergic drugs. Describe pharmacological action, therapeutic uses and adverse effects of  $\beta$ -blockers.
4. Classify non-narcotic analgesics. Describe the pharmacological action, therapeutic uses and adverse effects of Aspirin.
5. Classify and explain pharmacological properties and mechanism of action of neuromuscular blocking drugs.

7. Write illustrated account on the following :

- (a) Sodium cromoglycate
- (b) Neostigmine
- (c) Probenecid
- (d) Valdecoxib

8. Write short notes on the following

- (a) Bio-availability of the drugs
- (b) Phase II biotransformation reactions.

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*Time : Three Hours*

*Maximum Marks : 70*

**Note :** Attempt any *five* questions. All questions carry equal marks.

1. (a) Write a note on history of pharmacology.  
(b) Explain the factors modifying drug action.
2. (a) Explain the pathophysiology and chemistry of acetylcholine.  
(b) How will you manage organophosphorous poisonings ?
3. Write exhaustive notes on mechanism of action of muscle relaxants. Explain centrally acting muscle relaxants.
4. (a) Write a note on biosynthesis of prostaglandin.  
(b) Explain  $H_2$  antagonists.
5. Discuss various stages of discovery and development of new drugs.

(b) How will you treat atropine poisoning ?

7. (a) Write a note on hepatic metabolism.

(b) Discuss antidote drugs.

8. Write notes on any *three* of the following :

- (a) Pharmacogenetics
- (b) Management of disease related with prostoglandin
- (c) Cholecystokinin
- (d)  $\beta$ -receptor blockers
- (e) Expectorants