

**PHARMACOLOGY – I  
(2012 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. What is biotransformation. Explain phase I biotransformation reactions with suitable examples.
2. What are cholinergic receptors. Explain the signal transduction response of cholinergic receptors with a diagram.
3. Classify oral hypoglycemic agents with example. Explain the pharmacological action, therapeutic uses of biguanides.

**Short notes**

**(14x5=70)**

4. What is first pass metabolism. How it influences the pharmacokinetic parameters of a drug.
5. State the advantages and disadvantages of oral route of administration
6. Receptor desensitization process
7. Classify antiasthmatic drugs with example. State the mechanism of action of budesonide.
8. Clomiphene.
9. Describe the mechanism of action and therapeutic uses of raloxifene.
10. Explain the pharmacological actions of mecamlamine.
11. Explain the pharmacological action of atropine in eye.
12. Anaphylactic shock.
13. Explain the general poison treatment.
14. With example state what is
  - Full agonist    • Antagonist    • Pro drug    • Partial agonist    • Inverse agonist
15. Explain the pharmacological action and one therapeutic uses of nitrates.
16. Diagrammatically represent the adrenergic neurotransmission.
17. Classify antiarrhythmic drugs with suitable example.

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