

(LK 4264)

FEBRUARY 2017

Sub. Code: 4264

**B.PHARM. EXAMINATION  
THIRD YEAR  
PAPER IV – PHARMACOLOGY - I**

*Q.P. Code: 564264*

**Time: Three hours****Maximum: 100 Marks****I. Elaborate on:****(2 x 20 = 40)**

1. Classify Hypnotics. Elaborate on the mode of action, pharmacokinetics, adverse effects and therapeutic uses of Diazepam.
2. a) What is biotransformation? Explain the various phases of biotransformation reactions with suitable examples.  
b) What are cytochrome enzymes? Write a note on enzyme inducers and inhibitors?

**II. Write notes on:****(8 x 5 = 40)**

1. Write briefly on drug tolerance.
2. Explain why Carbidopa is combined with Levodopa in the treatment of Parkinsonism.
3. Drug interactions.
4. Define Cardiac arrhythmia. Write briefly on the use of calcium channel blockers in treatment of arrhythmia.
5. Write briefly on Lignocaine.
6. Write briefly on the bioassay of Insulin.
7. Write on the transduction mechanism in G-Protein coupled receptors.
8. Write briefly on the drugs used in the treatment of Gout.

**III. Short answers on :****(10 x 2 = 20)**

1. Name four drugs used in the treatment of congestive heart failure.
2. Give two examples for competitive antagonism.
3. Give examples of two Anti-tussives and two expectorants.
4. What is a dissociative anaesthesia? Give an example of drug producing it.
5. Name four antianginal drugs.
6. Give two examples of class IA anti-arrhythmic drugs.
7. Name two centrally acting muscle relaxants.
8. Give two examples of selective serotonin reuptake inhibitors.
9. Name two neurotransmitters each of the ANS and CNS.
10. Enlist four anti-parkinsonian agents.

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