

[LF 350]

OCTOBER 2014

Sub. Code: 2911

**M.PHARM. DEGREE EXAMINATION
FIRST YEAR
BRANCH IV – PHARMACOLOGY
PAPER II – PHARMACOLOGY AND TOXICOLOGY**

Q.P. Code : 262911

Time : Three hours

Maximum : 100 marks

I. Elaborate on:

(2 x 20 = 40)

1. Define bioavailability. Explain the various factors affecting bioavailability. Describe the importance of bioequivalence studies.
2. What is congestive heart failure? Classify the drugs used in congestive heart failure. Explain the mechanism of action, pharmacological actions, toxicity and therapeutic uses of digoxin.

II. Write notes on:

(10 x 6 = 60)

1. Membrane transporters.
2. Hepatic clearance of drugs.
3. Excitatory neurotransmitters in CNS.
4. Mechanism of local anaesthetic agents.
5. Cephalosporins.
6. Angiotensin converting enzyme (ACE) inhibitors.
7. Cyclooxygenase-2 (COX-2) inhibitors.
8. Vasopressin.
9. Free radicals.
10. Components of clinical trial protocol.
