

**S.Y.B.PHARM. SEMESTER-IV (2011 COURSE) : WINTER -  
2017**

**SUBJECT: PHARMACOLOGY -I**

Day: **Tuesday**  
Date: **21/11/2017**

Time: **02.00 PM TO 05.00 PM**  
Max. Marks: **80**

**W-2017-3829**

**N.B.:**

- 1) **Q. No. 1 and Q. No. 5** are **COMPULSORY**. Out of the remaining attempt any **TWO** question from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Draw neat labelled diagrams **WHEREVER** necessary.

**SECTION- I**

- Q.1** Define with examples (any **FIVE**) (10)
- a) Redistribution
  - b) Cumulative effect
  - c) Intrinsic activity
  - d) Inverse Agonists
  - e) Prodrug
  - f) Orphan receptors
- Q.2** a) Enlist the different routes of drug administration. Discuss sublingual route. (08)  
Write its advantages and disadvantages.
- b) Defines absorption of drugs. Discuss the factors affecting absorption of drugs. (07)
- Q.3** a) Enlist the various factors governing the volume of drug distribution. Explain in detail Brain and CSF barrier. (08)
- b) Explain the biotransformation of drugs. Enlist the various reactions involved in the biotransformation of drugs. Explain in detail phase II reactions. (07)
- Q.4** Write short notes on any **THREE** of the following: (15)
- a) Antagonism
  - b) Excretion of drugs
  - c) Drug allergy and photosensitivity
  - d) Adverse drug reactions

**SECTION-II**

- Q.5** Solve any **FIVE** of the following: (10)
- a) Write the therapeutic uses of cholinergic drugs.
  - b) Name the subtypes of muscarinic receptors and their tissue distribution.
  - c) Write the co- transmitters of ANS.
  - d) Write the therapeutic uses and adverse effects of  $\alpha$ - blockers.
  - e) Explain the term neuroeffector junction and synaptic cleft.
  - g) Name the drugs used in treatment of glaucoma
- Q.6** a) Explain classification of anti-cholinergic. Discuss pharmacological actions, adverse reactions and therapeutic uses of atropine. (08)
- b) Discuss the synthesis, storage, release, uptake and metabolism of catecholamines in ANS. (07)
- Q.7** a) Classify  $\beta$ -blockers, discuss the pharmacological effects, mechanism of actions and therapeutic uses of beta blockers. (08)
- b) Give classification, pharmacological actions and adverse effects of adrenergic drugs. (07)
- Q.8** Write a note on any **THREE** of the following: (15)
- a) Dale's vasomotor reversal
  - b) Nicotinic receptors
  - c) Neuromuscular blockers
  - d) Oximes