

**RGPVONLINE.COM** Roll No .....**PY - 503****B.Pharmacy V Semester**

Examination, December 2015

**Pharmaceutical Chemistry - VI****(Medicinal Chemistry - I)****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
 ii) All parts of each questions are to be attempted at one place.  
 iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.  
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Write about bioisosterism.  
 b) Describe basic principle of medicinal chemistry.  
 c) Write a note on receptor affinity.  
 d) Write a detail note on receptor theories.

OR

Describe a detail about receptor and drug action.

2. a) Define prodrug.  
 b) Enlist various factor that affect drug metabolism.  
 c) Write about basic concept of drug latentiation.  
 d) Describe phase-1 and phase-2 reaction of metabolism.

OR

Describe Bioprecursor prodrug and chemical delivery system, explain Prodrug of functional group.

3. a) Write classification of cholinergic drugs.  
 b) Give synthesis of acetylcholine.  
 c) Explain neuromuscular blocking agents.  
 d) Give detail classification and mode of action of adrenergic drugs. Write S.A.R. of norepinephrine. Write about the drug affect catecholamine biosynthesis.

OR

Write mode of action, uses and S.A.R. of acetylcholine antagonist.

4. a) Classify local anesthetic.  
 b) Give synthesis of lidocaine.  
 c) Write neurochemistry and stereochemistry of serotonin.  
 d) Write in detail about drugs affecting serotonergic neurotransmission.

OR

Write M.O.A. uses, S.A.R. of local anesthetics.

5. a) Classify NSAIDs.  
 b) Classify antihistamines.  
 c) Write M.O.A. and uses of NSAIDs.  
 d) Write in detail about neurochemistry and stereochemistry of histamine. Also write about mast cell stabilizers.

OR

Write synthesis and S.A.R. of paracetamol. Write about inhibitors of released histamine.

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