

**341519(41)**

B. Pharmacy (5<sup>th</sup> Semester)  
Examination, Nov.-Dec., 2016

( New Scheme )  
**Pharmacology-I**

*Time Allowed* 3 hours

*Maximum Marks* 70

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**Note :** Attempt any five questions. All questions carry equal marks.

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1. (a) Discuss various factors affecting drug action.  
(b) Write a brief note on mechanisms involved in process of acute inflammation.
2. Discuss Pathophysiology of any two diseases :
  - (a) Hypertension
  - (b) Urinary Tract Infection
  - (c) Asthma
3. Classify cholinergic drugs. Give the detailed pharmacological action of any one of them.

4. Write notes on (any two) :
    - (a) Atropine
    - (b) Acetylsalicylic acid
    - (c) Morphine
  5. What do you mean by epilepsy? Classify antiepileptic drugs and give pharmacological action of any one of them.
  6. Classify antiparkinsonism drug. Give the pharmacological action of levodopa.
  7. Discuss general anesthetic in detail.
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**341517(41)**

**B. Pharmacy (5<sup>th</sup> Semester)  
Examination, Nov.-Dec., 2016**

**( New Scheme)**

**Medicinal Chemistry-I**

*Time Allowed : 3 hours*

*Maximum Marks : 70*

**Note :** (i) Attempt any five questions.  
(ii) The figures in the right-hand margin indicate marks.

1. Classify NSAIDs with example. Discuss the synthesis, S.A.R. and uses of Aspirin and Paracetamol. [14]
2. (a) Explain the synthesis, S.A.R. and uses of Acetylcholine. [7]  
(b) Define receptors. Explain the types and theories of receptor with example [7]
3. What are autocoids? Classify anti-histaminic drugs with example. Discuss the S.A.R, synthesis and uses of diphenhydramine and promethazine. [14]

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(Turn Over)

4. (a) Write a note on chemical nature and medicinal applications of Eicosanoids. [7]  
(b) Classify local anaesthetics with example. Explain the synthesis and uses of any one drug. [7]
5. (a) Discuss the concept of QSAR with applications. [7]  
(b) Discuss the classification of adrenergic drugs with example. Write the synthesis and uses of adrenaline. [7]
6. Write short notes on (any two) : [7×2=14]
  - (a) Bioisosterism
  - (b) Neuromuscular blocking agents
  - (c) Chemical nature and application of oxytocins
  - (d) Anti-spasmodic drugs
7. (a) Discuss the S.A.R. and synthesis of Atropine. [7]  
(b) Mention the structure and uses of nimesulide, allopurinol and doxylamine. [7]

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