



HE-014-003408

Seat No. _____

**Masters of Pharmacy Management
(Sem. IV) (CBCS) Examination**

May / June – 2017

Pharmacology - I

Faculty Code : 014

Subject Code : 003408

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer any three from each section except question 1 and 5 are compulsory.
(2) Figure to the right indicates full marks.
(3) Draw neat and clean diagram when required.

SECTION – I

- 1 Answer the following questions : (Any Seven) 2×7=14**
- (1) Write the scope and branches of pharmacology.
 - (2) Define: Half-life and bioavailability.
 - (3) Explain the following terms:
 - (a) Drug interaction
 - (b) Iatrogenic diseases
 - (4) Write the mechanism of action of pilocarpine.
 - (5) Write the use of bethanecol.
 - (6) Write the treatment of myasthenia gravis.
 - (7) Explain the loading dose with its formula.
 - (8) Classify various routes of drug administration and write merits and demerits of parenteral route.
 - (9) Give the formulas to calculate children dose.
 - (10) Write the synthesis of acetylcholine.
- 2 Answer the following questions : 13**
- (A) Explain in brief about gating and signal transduction mechanism of G-protein coupled receptors. **7**
 - (B) Differentiate competitive and non-competitive antagonism with suitable examples. **6**

- 3** Answer the following questions : **13**
(A) Enlist basic processes involved in pharmacokinetics. **7**
Explain various factors affecting biotransformation of drugs.
(B) Write a short note on pharmacodynamics OR DRC. **6**
- 4** Answer the following questions : **14**
(A) Describe the factors modifying drug dosage and action. **7**
(B) Write a short note on local anesthetics. **6**

SECTION – II

- 5** Answer any two questions from the following : **2×7=14**
(A) Explain in brief about pharmacology of atropine.
(B) Classify neuromuscular blockers. Write on M/A and uses of d-tubocurarine.
(C) Enlist and describe the drugs used in the treatment of glaucoma.
- 6** Answer the following questions : **13**
(A) Write a short note on bronchodilator. **7**
(B) Write the pharmacology of acetyl choline. **6**
- 7** Answer the following questions : **13**
(A) Describe in detail about anti-histamines. **7**
(B) Explain in brief about myasthenia gravis. **6**
- 8** Answer the following questions : **13**
(A) Write in detail about pharmacology of adrenaline. **7**
(B) Differentiate sympathetic and parasympathetic nervous system. **6**