



**M-1612050701040500** Seat No. \_\_\_\_\_

**M. P. M. (Sem. IV) (CBCS) Examination**

**May / June - 2018**

**Pharmacology - I**

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) Name any two natural anticholinergics.
  - (2) Define : (i) Half-life (ii) Bioavailability
  - (3) Explain the following terms :
    - (i) Toxicology (ii) Diplopia
  - (4) Explain the term NSAIDs.
  - (5) Classify synthetic antimuscarinic agents.
  - (6) Explain myasthenia gravis.
  - (7) Give the formulas to calculate children dose.
  - (8) Briefly enumerate actions of Ach on Heart and Eye.
  - (9) Write the mechanism of action of pilocarpine.
  - (10) Explain the loading dose with its formula.
- 2** Answer the following questions : **13**
- (A) Enlist different processes involved in pharmacokinetics. **7**  
Explain various factors affecting metabolism of drugs.
  - (B) Write a brief note on Dose Response Curve. **6**
- 3** Answer the following questions : **13**
- (A) Enlist types of receptors and explain G-Protein **7**  
coupled receptors in detail.
  - (B) Describe the factors modifying drug dosage and action. **6**

- 4 Answer the following questions : 13
- (A) What is antagonism? Classify different types of antagonisms. Give difference between competitive and non-competitive antagonism with suitable examples. 7
- (B) Classify local anesthetic agents. Write a brief note on lignocain. 6

## SECTION - II

- 5 Answer any two questions from the following : 2×7=14
- (A) Explain neurohumoral transmission of Ach. (Synthesis, Storage, Release and Metab. of Ach)
- (B) Describe in detail about anti-histamines.
- (C) Classify ganglion blockers. Write a brief note on pharmacology of nicotine.
- 6 Answer the following questions : 13
- (A) Classify parasympathomimetics and parasympatholytics. 7
- (B) Write the pharmacology of adrenalin. 6
- 7 Answer the following questions : 13
- (A) Explain in brief about pharmacology of atropine. 7
- (B) Write a brief note on myasthenia gravis. 6  
(Sign & Symptoms, Therapy)
- 8 Answer the following questions : 13
- (A) Write a short note on bronchodilator. 7
- (B) Differentiate sympathetic and parasympathetic nervous system. 6