



PBC-1612050701040500 Seat No. _____

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

November / December - 2018

Pharmacology - I

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Answer any three from each section including question 1 and 5 which 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) **14**
- (1) Describe in brief about glaucoma.
 - (2) Define : (i) Pharmacogenomics (ii) Half life
 - (3) Comment: Nonsocomical infections are the root cause of latrogenic diseases.
 - (4) Comment: Autocoids are hormones.
 - (5) Classify synthetic antimuscarinic agents.
 - (6) Give the formulas to calculate children dose.
 - (7) Write in brief mechanism of action of local anesthetic.
 - (8) What are the actions of atropine on eyes?
 - (9) Write the mechanism of action of pilocarpine.
 - (10) Explain the loading dose with its formula.
- 2** Answer the following questions : **13**
- (a) Classify receptors. Describe signal transduction mechanism of G-Protein coupled receptors in detail. **7**
 - (b) Describe in detail about Drug Response Curve and its significance. **6**
- 3** Answer the following questions : **13**
- (a) Classify agonists based on affinity and efficacy criteria. Differentiate between competitive and non-competitive antagonism with suitable examples. **7**

- (b) Which are the different routes of drug administration? **6**
Write merits and demerits of parenteral route.
- 4** Answer the following questions : **13**
- (a) Write a note on pharmacokinetics. How metabolism affects drug actions? **7**
- (b) Classify local anesthetic agents. Discuss mechanism of action and uses of lignocain. **6**

SECTION - II

- 5** Answer Any **Two** questions from the following : **14**
- (a) Discuss various pharmacological actions of atropine.
- (b) Explain synthesis, storage, release and metabolism of adrenaline.
- (c) Classify neuromuscular blockers. Write the mechanism of action and uses of d-tubocurarine.
- 6** Answer the following questions : **13**
- (a) Describe the role of bronchodilators as anti-asthmatic agents. **7**
- (b) Enlist different inflammatory mediators. Classify anti-histaminics. **6**
- 7** Answer the following questions : **13**
- (a) Classify sympathomimetics and sympatholytics. **7**
- (b) Explain 'AURA' with respect to migraine. Discuss various causes and the treatment of migraine. **6**
- 8** Answer the following questions : **13**
- (a) How sympathetic system is different than parasympathetic nervous system? Explain with suitable examples. **7**
- (b) Write a brief note on myasthenia gravis. **6**
(Sign, Symptoms and Therapy)