



M-014-003408

Seat No. _____

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

May / June - 2018

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) Give the formulas to calculate children dose.
 - (2) Define : (i) Pharmacology (ii) Bioavailability.
 - (3) Explain the following terms :
(i) Iatrogenic disease (ii) Mydriasis
 - (4) Explain the term autocoids.
 - (5) Classify synthetic antimuscarinic agents.
 - (6) Explain glaucoma.
 - (7) Name any two natural parasympatholytics.
 - (8) Briefly enumerate actions of atropine on heart and eye.
 - (9) Write the mechanism of action of lignocain.
 - (10) Explain the loading dose with its formula.
- 2** Answer the following questions : **13**
- (A) Enumerate different types of receptors and explain G-Protein coupled receptors in detail. **7**
 - (B) Describe the factors modifying drug dosage and action. **6**

- 3** Answer the following questions : **13**
- (A) Define: Agonist and Antagonist. Give differences **7**
between competitive and non-competitive antagonism
with suitable examples.
- (B) Classify local anesthetic agents. Write a brief note **6**
on lignocain.
- 4** 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 DRC. **6**

SECTION - II

- 5** Answer any **Two** questions from the following : **2×7=14**
- (A) Explain neurohumoral transmission of adrenaline.
(Synthesis, Storage, Release and Metab. of adrenaline)
- (B) Describe in detail about anti-histamines.
- (C) Write a short note on neuromuscular blocking agents.
- 6** Answer the following questions : **13**
- (A) Classify parasympathomimetics and parasympatholytics. **7**
- (B) Write a brief note on the pharmacological actions of **6**
adrenalin.
- 7** Answer the following questions : **13**
- (A) Describe the role of bronchodilators as anti-asthmatic **7**
agents.
- (B) Differentiate sympathetic and parasympathetic **6**
nervous system.
- 8** 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)