J-1612050701040500 Seat No. _____

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

**June / July - 2019**

## Pharmacology - I

Time : **3** Hours] [Total Marks : **80**

**Instructions :** (1) Attempt three questions from each section.
(2) Questions 1 and 5 are compulsory.
(3) Tie each section separately.
(4) Figure to the right indicates full marks for the respective question.

### SECTION - I

**1** Answer the following : (any **seven**) **14**

(1) Give advantages of oral route.
(2) Explain: Adverse Event.
(3) Explain Therapeutic window.
(4) Define: Loading dose.
(5) Differentiate between: Somatic and autonomic nervous system.
(6) Give the type and location of Muscarinic receptor.
(7) Explain the term: Rare disease.
(8) Enlist the factors affecting the absorption of the drug.
(9) Explain the term: Synergism.
(10) Write mechanism of actions and adverse effects of salbutamol.

**2** Answer the following : **13**

(1) Enlist types of receptors. Write on G protein receptor. **7**
(2) Write a note on Adverse drug reactions. **6**

**3** Answer the following : **13**

(1) Write note on DRC. **7**
(2) Enlist basic processes involved in pharmacokinetics. Explain phase 1 Biotransformation. **6**

**4** Answer the following : **13**

(1) Differentiate competitive and non-competitive antagonism. **7**
(2) Write note on Drug elimination. **6**

## SECTION - II

**5** Answer the following : (any **two**) **14**

(1) Classify Anticholinesterases. Give its mechanism of action and therapeutic uses.

(2) Write a note on: Prostaglandins

(3) Classify parasympathomimetic with examples. Describe how the Ach is synthesized, released and are destroyed in the body.

**6** Answer the following : **13**

(1) Discuss Myasthenia gravis in detail. **7**

(2) Write pharmacological actions of atropine and symptoms of its poisoning. **6**

**7** Answer the following : **13**

(1) Write therapeutic uses of Sotalol. **7**

(2) Enlist autocoids. Write pharmacological actions of 5-HT. **6**

**8** Answer the following : **13**

(1) Classify neuromuscular blockers. Write on M/A and uses of d-tubocurarine. **7**

(2) Describe in detail about central cough suppressants. **6**

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