

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M. PHARM - SEMESTER- I • EXAMINATION – SUMMER -2018**

**Subject Code: MPL102T****Date: 05/05/2018****Subject Name: Advanced Pharmacology - I****Time: 02:30PM TO 05:30PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write in detail about pathogenesis, stages and new treatment trends in Alzheimer's disease. **06**  
(b) Classify antihypertensive drugs. Describe pharmacology of atenolol **05**  
(c) Explain significance of plasma protein binding **05**
- Q.2** (a) Classify lipid lowering agents. Write note on HMG CoA reductase inhibitors. **06**  
(b) Discuss mechanisms associated with depression. Explain the pharmacology of SSRIs **05**  
(c) Describe neurohumoral transmission through sympathetic nervous system. **05**
- Q.3** (a) Classify cholinergic receptors, describe their distribution and give examples of their agonists and antagonists **06**  
(b) Classify General Anesthetics and write about stages of Anesthesia **05**  
(c) Write short note on fibrinolytics. **05**
- Q.4** (a) Classify diuretics with examples. Write pharmacology of carbonic anhydrase inhibitors. **06**  
(b) Explain "receptor occupation theory" and "two state receptor model theory" for drug- receptor interactions **05**  
(c) Explain organo-phosphorous poisoning and its treatment **05**
- Q.5** (a) Classify sympathomimetics. Write pharmacology of selective  $\beta$  receptor agonists **06**  
(b) Discuss enzyme induction and enzyme inhibition with examples **05**  
(c) Describe pharmacology of prostaglandins **05**
- Q.6** (a) Classify NSAIDs with examples. Explain therapeutic uses of Aspirin. **06**  
(b) Enlist autacoids. Write pharmacological actions of 5-HT **05**  
(c) Explain concepts of linear and non-linear compartment models. **05**
- Q.7** (a) Classify epilepsy. Mention drug of choice for each type. **06**  
(b) Define anemias. Write detailed note on Iron deficiency anemia **05**  
(c) Classify antihistamines. Explain in brief triple response of histamine **05**

\*\*\*\*\*