

P2025

[3757]-207

M. Pharmacy

**MOLECULAR PHARMACOLOGY
(2008 Pattern) (M-III-4) (Semester - II)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *Q.1 and Q.5 are compulsory.*
- 2) *Solve any two questions from the remaining in Section I and Section II.*
- 3) *Figures to the right indicate full marks.*
- 4) *Write answers for Section I and Section II in separate answer sheets.*

SECTION - I

- Q1)** Discuss basic concepts of chronopharmacology and their implications on drug therapy. **[10]**
- Q2)** Describe ion channel and their modulators for chloride channels. **[15]**
- Q3)** Enlist various endogenous bioactive molecules. Add a note on endothelium derived vascular substances. **[15]**
- Q4)** Write a note on (Any two) : **[15]**
- a) Serotonin receptors.
 - b) Cyclic nucleotides.
 - c) Transgenic mouse.

SECTION - II

- Q5)** Discuss in detail cellular cytotoxicity. **[10]**
- Q6)** Describe pharmacology and therapeutic application of reactive oxygen intermediates. **[15]**

Q7) What do you mean by adhesion therapy? Comment on vascular remodeling. **[15]**

Q8) Write a note on (Any two) : **[15]**

- a) Ion channels and their modulators.
- b) Opioid receptors.
- c) Human genome mapping.

* * *