

**M. PHARM. SEM-II (CHOICE BASED CREDIT & GRADE SYSTEM)
: SUMMER - 2018**

SUBJECT : ADVANCE CORE SUBJECT – III : ADVANCED PHARMACOLOGY - III

Day : **Thursday**
Date : **05/07/2018**

S-2018-4006

Time: **10.00 AM to 01.00 PM**
max. Marks. 60

N.B. :

- 1) Attempt any **THREE** questions from **Section – I** and **Section – II** each.
 - 2) Answers to both sections should be written in **SEPARATE** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION - I

- Q.1** Describe and classify the G-protein coupled receptor. Explain in detail their secondary messenger pathway. **(10)**
- Q.2** Describe the endothelium derived relaxing factor. Explain the physiological and pathological implications. **(10)**
- Q.3** Discuss the types of reactive oxygen species. Derive the significance of antioxidants as therapeutics agents. **(10)**
- Q.4** Write notes on any **TWO** of the following: **(2 x 5 = 10)** **(10)**
- a) Cytokines
 - b) Neurosteroids
 - c) Histamine receptors

SECTION - II

- Q.5** Explain in detail the signaling of glucocorticoid receptor. **(10)**
- Q.6** Explain in detail the concept of gene therapy. **(10)**
- Q.7** Describe in detail the modulation of potassium ion channels. Highlight the importance of drugs acting on them. **(10)**
- Q.8** Write notes on any **TWO** of the following: **(2 x 5 = 10)** **(10)**
- a) Apoptosis
 - b) Insulin receptors
 - c) Chronopharmacology

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