

Pre. Ph.D. Course Work (2017 Course) : (Pharmacology) :
SUMMER - 2019
(PHARMACOLOGY)
SUBJECT: PAPER-II- RECENT ADVANCES IN PHARMACOLOGY

Day: Wednesday
Date 24/04/2019

Time: 10.00 AM TO 1.00 PM
Max Marks.100

S-2019-5355

N.B.

- 1) Attempt any **FIVE** questions from section –I and any **FIVE** questions from section-II
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat and labeled diagrams **WHEREVER** necessary.

SECTION - I

- Q.1** Describe in details regulatory guidelines for animal experimentation. **(10)**
- Q.2** Explain in details radioligand binding assay. **(10)**
- Q.3** Explain the molecular cellular signaling in G-Protein Coupled Receptors. **(10)**
- Q.4** Describe the screening of drugs for Alzheimer's disease. **(10)**
- Q.5** Explain in detail the screening for anticancer drugs. **(10)**
- Q.6** Write Short note on any **TWO** of the following: **(10)**
- a. Transgenic animals
 - b. Screening for immunostimulants
 - c. Secondary messengers

SECTION - II

- Q.7** Discuss in detail the toxicokinetic studies. **(10)**
- Q.8** Discuss the ethics of clinical trials. **(10)**
- Q.9** Discuss the principles, methods and applications of Gene sequencing techniques. **(10)**
- Q.10** Explain in detail the origin, concepts and importance of safety pharmacology. Add a note on cardiovascular safety pharmacology. **(10)**
- Q.11** Explain the methods and applications of PCR. **(10)**
- Q.12** Write Short note on any **TWO** of the following: **(10)**
- a. Renal safety pharmacology
 - b. HERG assay
 - c. Microarray

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