

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
4th Semester

Branch - **BIOCHEMISTRY**

CORE ELECTIVE-II : BIOCHEMISTRY OF DRUGS

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Give the classification of Drugs.
OR
b Mention the mechanism of drug elimination through kidney.
- 2 a Explain anti-AIDS drug design.
OR
b Write the Lipinski's Rule 5.
- 3 a Discuss the induction of drug metabolizing enzymes.
OR
b Explain the mechanism of dehalogenation reaction in drug metabolism.
- 4 a Write short notes on Antiviral substances.
OR
b What is drug resistance? Give the mechanism of drug resistance.
- 5 a Define the following terms : (3 + 3)
(i) Idiosyncrasy (ii) Tachyphylaxis
OR
b Explain the treatment of acute drug poisoning.

SECTION -B (45 Marks)

Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Discuss in detail on Drug Absorption process.
- 7 Explain Quantitative Structure Activity relationship.
- 8 Illustrate the reactions of phase -1 drug metabolism.
- 9 Explain the mechanism of action of antimetabolites of folate, purines and pyrimidines.
- 10 Discuss in detail on Drug Assay.