

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Fourth 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 Mention the consequences of Drug – Protein interaction.
OR
b Define the following terms : (i) LD₅₀ (ii) ED₅₀
- 2 a Write in detail on denovo drug design.
OR
b Explain Anti AIDS drug design.
- 3 a Give the differences between phase – I and phase – II reactions.
OR
b Explain Azo reduction and nitro reduction with example.
- 4 a Write the mechanism of action of sulphonamide.
OR
b What is Antimalarials? Explain Antimalarial drug classification.
- 5 a Explain the factors influencing the effect of drug.
OR
b What is Drug Allergy? Explain.

SECTION -B (45 Marks)

Answer any THREE questions

ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Explain the mechanism of drug absorption and write the factors that affect drug absorption.
- 7 Write in detail on pharmacogenomics based drug design and Lipinski's Rule 5.
- 8 Explain the followings :
(i) Non – Microsomal drug metabolism
(ii) Mechanism of cytochrome P₄₅₀.
- 9 Discuss in detail on cancer chemotherapy.
- 10 Illustrate the various types of Adverse drug reactions.