

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2019  
(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 How protein binding affect drug distribution?  
OR  
b What is Dose-Response relationship? Explain.
- 2 a Write the role of combinatorial chemistry in the drug development process.  
OR  
b Discuss pharmacogenomics based drug design.
- 3 a Explain cytochrome p450 cycle in drug metabolism.  
OR  
b Write short notes on non-microsomal drug metabolism.
- 4 a Mention the mechanism of action of sulphonamide.  
OR  
b Give the classification and mechanism of action of antimalarial drugs.
- 5 a Define the terms :  
(i) Physical dependence (iii) Psychological dependence  
OR  
b What are the factors that modify the effect of a drug?

**SECTION -B (45 Marks!)**

Answer any THREE questions

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

- 6 Explain different types of binding forces involved in Drug-Receptor interaction.
- 7 Discuss in detail on computer assisted drug design.
- 8 What is phase-II reaction? Explain the mechanism of Glucuronic acid and Mercapturic acid conjugation.
- 9 Discuss in detail on cancer chemotherapy.
- 10 Explain Adverse Drug Reactions.