

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION JUNE 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 . Write the classification of drugs.  
OR  
b Discuss the binding forces involved in drug – receptor interaction.
- 2 a Outline the QSAR with example.  
OR  
b What is pharmacogenomics? Explain pharmacogenomics based drug design.
- 3 a Explain any two conjugation reactions.  
OR  
b Give the mechanism of action of cyt P<sub>450</sub>.
- 4 a Write in detail on biochemical mechanism involved in drug resistance.  
OR  
b Discuss the metabolic antagonism by enzyme inhibition.
- 5 a What are the factors that modify effect of a drug?  
OR  
b Give different types of drug tolerance.

**SECTION -B (45 Marks)**

Answer any **THREE** questions

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

- 6 Discuss the following pharmacokinetic process  
(i) Drug distribution (ii) Drug Elimination.
- 7 Explain computer assisted drug design.
- 8 Elaborate the reactions of microsomal drug metabolism.
- 9 Explain antimetabolites of folate, purines and pyrimidines.
- 10 Write in detail on assay on drugs.