

Reg. No .....

Name .....

**18P3607**

**MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2018**  
**SEMESTER 3 : PHARMACEUTICAL CHEMISTRY**  
**COURSE : 16P3CPHT09 : PHARMACEUTICAL CHEMISTRY - I**  
*(For Regular - 2017 Admission & Supplementary - 2016 Admission)*

Time : Three Hours

Max. Marks: 75

**Section A**  
**Answer any 10 (2 marks each)**

1. What do you mean by excretion of drugs?
2. What are agonists and antagonists? Give examples.
3. Comment on the different sites of biotransformations.
4. Explain teratogenicity.
5. What do you mean by antiarrhythmic agents ? Give examples
6. Draw the structure of digoxin
7. Give the synthesis of methyl dopa.
8. What do you mean by multiple drug therapy ? Give an example of multiple drug therapy for malaria
9. Which Pencillin is active against Pseudomonas aeruginosa ? Explain its clinical use ?
10. Discuss the pharmacological action of tenoxicam.
11. Discuss in general the mechanism of action of narcotic analgesics.
12. Outline the synthesis of Dapsone.
13. Draw the structure of acyclovir. What is its use?

**(2 x 10 = 20)**

**Section B**  
**Answer any 5 (5 marks each)**

14. Give an account of carrier proteins.
15. Explain methylation and sulphonation conjugation in phase II metabolism
16. Discuss on renin-angiotensin system.
17. Give the mechanism of action and synthesis of fluvastatin
18. Explain the medicinal chemistry of polypeptide antibiotics with examples
19. Write the mode of action, SAR, synthesis, and metabolism of any one of the amino quinoline derivatives in malaria treatment.
20. Outline the syntheses of (a) diclofenac and (b) ketoprofen
21. Give the structures of antibiotics which are used as antifungal drugs. Explain their properties and mode of action.

**(5 x 5 = 25)**

**Section C****Answer any 2 (15 marks each)**

22. Explain the factors affecting drug absorption.
23. Give an account of different receptor theories.
24. Discuss in detail the classification of drugs which are used as antipyretics and NSAIDs.
25. What are antiamebic agents? Explain the chemistry, mechanism of action and uses of various types of antiamebic agents.

**(15 x 2 = 30)**