

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER 3 : PHARMACEUTICAL CHEMISTRY****COURSE : 16P3CPHT09 : PHARMACEUTICAL CHEMISTRY - I***(For Regular - 2018 Admission and Supplementary - 2016/2017 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. What do you mean by efficacy of a drug?
2. What do you mean by receptors and binding site of receptors?
3. Give an example for an oxidation and a hydrolysis as a method of biotransformation.
4. Distinguish between habituation and addiction.
5. What are vasodilators? Give two examples.
6. Write a note on neurone blockers as antiarrhythmic agent. Explain with example
7. What are the differences between penems and carbapenems ?
8. Which Pencillin is active against Pseudomonas aeruginosa ? Explain its clinical use ?
9. Give the synthesis of codeine.
10. Discuss the pharmacological action of Aspirin and allopurinol.
11. Discuss the pharmacological action of tenoxicam.
12. The presence of electron withdrawing group pyrimidine nucleus makes sulphadiazine more active. Why?
13. Draw the structure of fluconazole? What are its uses?

(2 x 10 = 20)

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

14. What are agonists? Differentiate between partial and inverse agonists with examples.
15. Distinguish between rate and occupation theory of receptors.
16. How does toxic electrophile in our body eliminate by glutathione conjugation?
17. Describe the mode and action of the different antiarrhythmic agents used in the treatment of hypertension.
18. Explain the salient features of the tetracyclines. Write a brief account on the SAR and MOA of tetracyclines.
19. Explain in detail the SAR of anthranilic acid derivatives as Antipyretics and NSAIDs
20. Outline the synthesis, mode of action and pharmaceutical uses of diclofenac.
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. What are anticoagulants? Discuss the structure, SAR and mechanism of action of the various types of anticoagulants.
24. Give classification of antibiotics and write their mode of action.
25. What are antiamoebic agents? Explain the chemistry, mechanism of action and uses of various types of antiamoebic agents.

(15 x 2 = 30)