

QP Code: 422006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations  
November 2022  
Medicinal Chemistry - 1  
(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Elaborate the following physicochemical properties in relation to biological activities with suitable examples. • Hydrogen bonding • Geometrical Isomerism.
2. Discuss structural activity relationship of phenothiazine's and write synthesis of Chlorpromazine hydrochloride.

**Short Notes**

**(7x5=35)**

3. Classify antipsychotic drugs and write mechanism of action of phenytoin and risperidone.
4. Summarize biosynthesis of acetylcholine.
5. Describe the factors affecting drug Metabolism with suitable examples.
6. Write the mechanism of action and synthesis of mefenamic acid.
7. Outline structural activity relationship of morphine analogues.
8. Write the synthesis and mechanism of action of propranolol.
9. Draw structure and uses of • Naphazoline • Haloperidol • Pentobarbital  
• Promazine • Trimethadione

**Answer Briefly**

**(10x2=20)**

10. Classify general anesthetics.
11. Mention any four cholinergic blocking agents.
12. Mechanism of action and chemical structure of indomethacin.
13. Define Hypnotic and sedatives and give one example.
14. Bioisosterism.
15. Draw two structures of benzodiazepines.
16. Synthesis of ethosuximide
17. Write two structures of narcotic analgesic agent.
18. Relate any two  $\beta$  adrenergic agonists and antagonists.
19. Mechanism of action and uses of valproic acid.

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