

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2021 ONLY)

SUBJECT CODE 21PCY4E1

REG.NO.

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**

**END-OF-SEMESTER EXAMINATIONS : MAY 2023**

**M.Sc. – Chemistry**

**MAXIMUM MARKS: 70**

**IV SEMESTER**

**TIME : 3 HOURS**

**MEDICINAL CHEMISTRY**

**SECTION – A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS. (K1)**

1. The other name of paracetamol is -----.  
a) aspirin                      b) ibuprofen                      c) acetaminophen                      d) diazepam
2. Identify the kind of interactions that are involved in binding a drug to the binding site of a specific protein \_\_\_\_\_.  
a) predominantly van der Waals interactions                      b) predominantly ionic bonds  
c) predominantly hydrogen bonds                      d) all of the above
3. Which of the following decreases the insulin secretion?  
a) epinephrine                      c) fatty Acid  
b) amino acids (Arginine, Lysine, Leucine)                      d) glucose-dependent insulintropic peptide
4. Which one of the following effects is NOT seen with barbiturates?  
a) analgesic                      c) induction and maintenance of anaesthesia  
b) anticonvulsant                      d) sedation
5. The antibiotic that enters brain freely is \_\_\_\_\_.  
a) tetracycline                      b) erythromycin                      c) chloramphenicol                      d) gentamicin

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

6. Write any two importance of acyclovir.
7. Define the term drugs with an example.
8. Explain the adverse effects of digoxin?
9. What are analgesic agents?
10. Write any two properties of penicillin.

**(CONTD .... 2)**

**SECTION – B****(5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.  
(Qn. No. 11 to 15) 10 questions (a & b) – 2 questions from each unit. (K3)**

11. a) How will you synthesise Aspirin?

**(OR)**

b) Explain about central nervous system agents.

12. a) Write a note on preparation and organization for drug seeking.

**(OR)**

b) Explain briefly molecular docking study.

13. a) Discuss structure and uses of quinidine.

**(OR)**

b) Explain the adverse effects of chlorpropamide.

14. a) Discuss enzyme inhibitors.

**(OR)**

b) Illustrate antiviral drugs.

15. a) Give the properties of tetracycline.

**(OR)**

b) Explain Nitrogen containing heterocyclic compounds.

**SECTION - C****(4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**

**(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS**

**(FROM Qn. No : 17 to 21)**

**(K4 (Or) K5)**

16. Explain in detail narcotic and non-narcotic analgesics.
17. Illustrate briefly anti-inflammatory drugs.
18. Explain insilco drug design.
19. Demonstrate the main effects of using cardiovascular drugs.
20. Explain about the modes of action of Apomorphite drugs.
21. Write about the classification of antibiotics.

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