

SCHOOL OF CHEMICAL AND LIFE SCIENCES
B.Sc. HONS. IN CLINICAL RESEARCH
SEMESTER-III, EXAMINATION March-2024

2022

PAPERCODE: BCR DSC 301

PAPERTITLE: Pharmacology I

Time: 2.5Hrs.

Maximum Marks: 60

Write the roll number at the top immediately on receipt of this question paper. Attempt all questions. All parts of a question must be attempted in continuation. Start answer of a fresh question on a new page. Cite examples whenever necessary

- Q 1. Answer **all the questions** [2x6]
a. Define non-competitive antagonist
b. Define idiosyncrasy
c. What is therapeutic index
d. Define the synergistic effect of the drugs
e. Name the drugs extracted from the Periwinkle plant
f. Give 3 examples of prostaglandins F2 α analogue.
- Q2. Explain receptor theories and classification of receptors [12]
OR
Explain in detail about enzyme induction and kinetics of drug elimination.
- Q 3 Describe the JAK-STAT pathway with a neat and labeled diagram [12]
OR
What are miotic and mydriatic drugs, explain their mechanism of action.
- Q4. Discuss various factors affecting drug response. [12]
OR
Write about arachidonic acid metabolites and NSAIDs.
- Q5. What are G protein-coupled receptors explain in detail. [12]
OR
Discuss serotonin agonists and antagonists.