BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – M.Pharm(PC)-2024
Course Name – Advanced Medicinal Chemistry
Course Code - MPC103T
(Semester I)

Full Marks : 75   **Time : 3:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A
(Short Answer Type Questions)   5 x 5=25

1. What is the role of thromboxane A2 in platelet aggregation.   (5)
2. Summarize the significance of prostaglandin F2α (PGF2α) in the reproductive system. (5)
3. Explain non-competitive inhibition and its impact on Vmax and Km.   (5)

4. Explain artificial enzyme with examples.   (5)
5. Write the role of leukotrienes in asthma and allergic reactions.   (5)

OR

Write the effect of backbone modification on the biological activity of peptidomimetics   (5)

Group-B
(Long Answer Type Questions)   10 x 5=50

6. Discuss the enantioselective preparations and enantiopure medications.   (10)
7. Illustrate the synthesis of prostaglandins, Leukotrienes and thromboxane.   (10)
8. Explain the effect of chirality on biological system.   (10)
9. Summarize the SAR of prostaglandins.   (10)

OR

Explain the role of computational modeling in designing peptidomimetics .   (10)

10. Write the examples of backbone modifications which are commonly used in   (10)
peptidomimetics.

OR

Write the synthetic strategies involved in backbone modification of peptidomimetics. (10)

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