



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – M.Pharm(PC)-2025

Course Name – Advanced Organic Chemistry-II

Course Code - MPC202T

(Semester II)

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. List out twelve principles of green chemistry with short description. (5)
2. Explain the Fisher's projections. (5)
3. Explain the positive, negative catalysis and induced catalyst. (5)
4. Explain the use of chiral auxiliary. (5)
5. Summarize the different applications of heterogeneous Catalyst. (5)

OR

Summarize the advantages of biocatalysis.

(5)

Group-B

(Long Answer Type Questions)

10 x 5=50

6. Describe different types of sonochemical reactions. (10)
7. Explain the different methods of preparation of heterogeneous Catalyst. (10)
8. Illustrate quantum yield with its classification and example. (10)
9. Explain the reasons of geometrical isomers in alkenes and cycloalkanes. (10)

OR

Explain the method for determination of the configuration of geometrical isomers. (10)

10. Explain the preparation mechanism, limitation and uses of Ziegler–Natta Catalyst. (10)

OR

Explain the classification of catalyst based on the nature of Phase. (10)
