THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[M.PHARM 1223] DECEMBER 2023 Sub. Code: 2942
(OCTOBER 2023 EXAM SESSION)

M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New Regulations 2016)
PHARMACEUTICAL CHEMISTRY - MPC
PAPER II - ADVANCED ORGANIC CHEMISTRY - I

Q.P. Code: 262942

Time : Three hours **Answer ALL Questions** **Maximum: 75 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Enumerate the generation, reactivity, stability, orientation and synthetic utility of
   (a) Carbenes. b) Carbocations.

2. Give a detailed account of SN1 and SN2 reactions.

II. Write notes on: **(7 x 5 = 35)**

1. Write a note on Baeyer–Villiger oxidation.
2. Give an account of the synthetic applications of Benzotriazol–1–yloxy) tris (dimethylamino) phosphonium hexafluoro–phosphate.
3. Explain briefly functional group interconvertion.
4. Write the synthesis and medicinal uses of Trimethoprim and Miconazole.
5. Write a note on Traube purine synthesis.
6. Discuss briefly on the strategies for protection of amino group.
7. Explain C-C disconnection approaches in connection with alcohols with suitable examples.

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