

SEM-2212

M. Sc. (Fourth Semester) Examination, June 2021

CHEMISTRY

Paper : Eighth (Opt.-1)

(MCH-508)

(Organic Synthesis)

Time Allowed : Three hours

Maximum Marks : 80

Note : Attempt all questions. Each question carries equal marks.

1. Illustrate any **two** of the following in detail :
 - (i) Reversal of polarity
 - (ii) Amine Synthesis
 - (iii) Cyclization reaction
2. What are one group C-C and two group disconnections concept? Explain examples of each group with reference to alcohols and 1, 3-di functionalized. compounds.
3. What are different oxidative and reductive processes? Cite few examples with oxidant thallium (III) Nitrate and reductant Nitro groups for organic compounds.
4. What are organometallic reagents? Give the principle preparation and applications of organo synthetic magnesium.
5. Carry out the synthesis of :
 - (i) Juvabion and
 - (ii) Camphor