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BPHARM**(SEM IV) THEORY EXAMINATION 2023-24****PHARMACEUTICAL ORGANIC CHEMISTRY III – THEORY****TIME: 3HRS****M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A**1. Attempt all questions in brief.****10 x 2 = 20**

a.	Define stereoisomerism with an example.
b.	What are meso-compounds? Give example.
c.	Illustrate with an example of the Syn and Anti system of nomenclature.
d.	Define enantiomers with examples.
e.	What do you understand by the term optical activity?
f.	Draw the resonance structures of Furan.
g.	Write any one method of synthesis of Acridine.
h.	Give the structure and use of Lithium Aluminium hydride.
i.	Name the reducing agents used in Clemmensen reduction.
j.	Enumerate the synthetic application of the Dakin reaction.

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

a.	Give reaction and reaction mechanism for Wolf-Kishner and Dakin reaction.
b.	What are heterocyclic compounds? Give their systematic nomenclature and classification.
c.	Define geometric isomers and explain the method of nomenclature of geometric isomers.

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

a.	Write a note on elements of symmetry with an example.
b.	Discuss conformational isomerism in cyclohexane.
c.	Write methods of synthesis and reactions of Furan.
d.	Discuss Paal-Knorr Synthesis of Pyrrole.
e.	Write the method of synthesis and chemical reactions of Isoquinoline.
f.	Describe the method of synthesis and reactions of Imidazole.
g.	Write the mechanism of the Oppenauer-oxidation reaction.