Printed Pages: 01 **Sub Code: BP401T**

Paper Id: **150299** **Roll No.** | | | | | | | | | | |

B PHARM

(SEM IV) THEORY EXAMINATION 2018-19

PHARMACEUTICAL ORGANIC CHEMISTRY –III

Time: 3 Hours **Total Marks: 75**

Note: Attempt all Sections. If you require any missing data, choose suitably.

SECTION A

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

a) Give the structure and uses of imidazole and indole
b) Why study of stereochemistry in chemistry is important.
c) Write about dakin reaction
d) Discuss about the basicity of pyridine
e) What are meso compounds
f) What is partial and absolute symmetric synthesis
g) What are stereospecific and stereoselective reactions
h) What is D and L nomenclature
i) Write the synthesis of furan
j) What are the conditions of optical isomerism

SECTION B

2. Attempt any two parts of the following: **2 X 10 = 20**

a) Write about nomenclature and methods of determination of geometrical isomerism with examples
b) Discuss with examples the rules of nomenclature and classification of heterocyclic compounds
c) Give synthesis and reactions of i) thiophene ii) imidazole

SECTION C

3. Attempt any five parts of the following: **7 X 5 = 35**

a) Give short note on wolf-kishner reduction
b) Explain the Beckmann rearrangement reaction with examples
c) Write the synthesis and medicinal uses of pyrimidines and purine derivatives
d) Discuss about stereoisomerism in biphenyl compounds
e) Give synthesis of oxazole and thiazole with their medicinal uses
f) Compare aromaticity and reactivity of pyrrole and furan
g) Discuss optical isomerism with examples

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