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**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