Printed Pages:01 Sub Code:RPH206

Paper Id: 150276 Roll No. | | | | | | | | | | |

B PHARM

(SEM-II) THEORY EXAMINATION 2018-19

PHARMACEUTICAL CHEMISTRY-II

(PHARMACEUTICAL ORGANIC CHEMISTRY)

Time: 3 Hours *Total Marks: 70*

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

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. What are reaction intermediates?
b. What is hyperconjugation?
c. What do you mean by inductive effect?
d. Explain specific rotation.
e. Explain acidity of phenol.
f. Write any one method for the synthesis of alkene.
g. Explan morkovnikov's addition in alkenes.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. Explain E1 and E2 reactions with suitable examples.
b. Write down various methods for the synthesis of cycloalkanes. Explain baeyer strain theory with examples.
c. Describe orientation and reactivity in electrophilic aromatic substitution
d. Explain nucleophilic addition reactions in carbonylcompounds withsuitable examples
e. Write down the following with mechanism;
  i. Meerwein-Ponndorf-Verley reduction
  ii. Hofmann rearrangement

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

a. What do you mean by optical active compounds? Explain relative and absolute configuration system of nomenclature with examples.
b. What do you mean by conformational analysis? Explain conformers in cyclobutane and cyclohexane.

4. Attempt any *one* part of the following: 7 x 1 = 7

a. Write about SN^1 and SN^2 reactions with suitable examples.
b. Give the mechanism of electrophilic addition reactions. Give reaction of 2-butene with boron, dil. KMn_{O4} and ozone. Give reaction of acetylene with NaN_{H2}, HCl and B_{r2}.

5. Attempt any *one* part of the following: 7 x 1 = 7

a. Write down various methods for the synthesis of alkyl halides along with their chemical properties.
b. Write about basicity and synthesis of amines along with their chemical reactions.

6. Attempt any *one* part of the following: 7 x 1 = 7

a. Write in detail about synthesis, reactions and importance of Naphthalene.
b. Write in detail about synthesis, reactions and importance of phenol.

7. Attempt any *one* part of the following: 7 x 1 = 7

a. Write in detail about aryl diazonium salts and their synthetic importance.
b. Write in detail about reaction of α, β- Unsaturated carbonyl compounds and their synthetic importance.