

B. PHARM
(SEM-IV) THEORY EXAMINATION 2019-20
PHARMACEUTICAL ORGANIC CHEMISTRY III

Time: 3 Hourswww.aktupreviousyearpaper.in**Total Marks: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.
 2. Any special paper specific instruction.

SECTION A

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

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| a. | Differentiate chiral and achiral molecule. |
| b. | Explain E and Z isomers with suitable example. |
| c. | Draw conformers of ethane. |
| d. | Write any two synthetic procedures for preparation of pyrrole. |
| e. | Why meso compounds are optically inactive? |
| f. | Draw structure of any two five member heterocyclic compound and their use. |
| g. | Name the reducing agent used in Clemmensen reduction. |
| h. | Give chemical reaction used for conversion of Aldehyde directly into Alkane. |
| i. | Give structure and use of imidazole. |
| j. | Define term d, l, D and L |

SECTION B

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

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| a. | What is racemic modification? How can you resolute racemic mixture? |
| b. | Give definition and reaction mechanism for Wolff kishner and Dakin raction. |
| c. | Give preparation, properties and medicinal uses of pyridine. |

SECTION C

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

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| a. | Give RS system of nomenclature of optical isomers with sequence rules. |
| b. | Write a note on stereospecific and stereoselective reaction. |
| c. | Explain partial and absolute asymmetric synthesis. |
| d. | Give synthesis and medicinal uses of pyrrole. |
| e. | Give importance of LiAlH ₄ in metal hydride reduction. |
| f. | Give reaction and mechanism for Schimidt rearrangement. |
| g. | Give synthesis, properties and medicinal use of azepines and their derivatives. |

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