

AV - 2466

First Year Pharm. D. Examination

PHARMACEUTICAL ORGANIC CHEMISTRY

Paper - 1.4
(USC - 35111)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

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- Note :** (1) Answer any **Six** questions.
(2) Question no. **One** is compulsory.
(3) Discuss the reaction, mechanism wherever necessary.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Write a note on (any Three) :—

- (A) Reimer tieman's reaction.
- (B) Basicity of amines.
- (C) Knoevenagel reaction.
- (D) Witting reaction.

15

2. What is Nucleophilic Aliphatic substitution ? Discuss the reaction, mechanism, stereochemistry, Orientation and reactivity of SN_1 reaction. 11

3. Discuss in detail the evidences with example For E_2 mechanism. 11

4. (A) Discuss the reaction of carbon. Carbon double bond. 6

(B) Explain the term "Allyl radical as resonance hybrid". 5

5. Discuss in detail with example the Electrophilic Aromatic substitution reaction. 11

AV-2466

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| 6. | (A) Discuss the nomenclature rule for Aldehyde and Ketone. | 6 |
| | (B) What is Isomerism ? Give one example. | 5 |
| 7. | (A) Discuss about Nucleophilic addition reaction. | 6 |
| | (B) Discuss Fries rearrangement. | 5 |
| 8. | (A) Discuss the Nucleophilic aromatic substitution. | 6 |
| | (B) Discuss Oxidation-Reduction reaction. | 5 |
| 9. | Give the preparation, assay and medicinal uses of (any Three) :— | |
| | (1) Mephenesin | |
| | (2) Urea | |
| | (3) Ethylene chloride | |
| | (4) Benzyl benzoate. | 11 |

