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(2125)

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B. Pharmacy 1st Semester Examination
Pharmaceutical Organic Chemistry (NS)
BP-112

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : The candidates are required to attempt any two questions from section A, any eight from section B, section C will be compulsory and students have to answer all questions from section C.

SECTION - A

1. Attempt any two:

- (a) Discuss stability, generation and reactions of carbocations. (10)
- (b) Discuss mechanisms with proof for SN1 and SN2 reactions. (10)
- (c) Write chemistry, properties and reactions of aldehyde and ketones. (10)

SECTION - B

2. Write on following with examples: (any eight)

- (a) Resonance
- (b) Hofmann rearrangement
- (c) Reactions of amines

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- (d) Halogenation of Alkane
- (e) SP³ hybridization
- (f) Friedel craft alkylation
- (g) Saytzeff rule
- (h) Reactions of phenols
- (i) Acidity of carboxylic acids
- (j) Preparations and reactions of esters. (5×8=40)

SECTION - C

3. Comment on followings:

- (a) Aryl halide is less reactive than alkyl halide.
- (b) Substitution of methyl group in aromatic amine increases basicity while nitro group decreases basicity.
- (c) NH₃ having more dipole moment than NF₃.
- (d) Phenol is more acidic than alcohol.
- (e) Benzene is aromatic. (2×5=10)

[P.T.O.]