16352

[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2066)

16352(J) ユーム

B. Pharmacy 2nd Semester Examination

Pharmaceutical Chemistry-II (Organic Chemistry) (CBS) BP-201

DP-2

Time: 3 Hours

Max. Marks: 60

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

Note: Candidates are required to attempt five questions selecting one question from each section A, B, C and D of the question paper and subparts of the questions in section E are compulsory.

SECTION - A

- 1. (a) What is carbocations; define the structure of carbocations. (6)
 - (b) How are alkyl halides prepared? Describe their synthetic utility. (6)
- 2. (a) Write a note on Wurtz reaction. (6)
 - (b) How is ethyl alcohol manufactured from molasses or starch? (6)

SECTION - B

- (a) What are cycloalkanes? Describe the stability of cycloalkanes.
 - (b) How are dienes prepared? Describe their important reactions. (6)
- 4. How are aliphatic carboxylic acid prepared? Describe the important reactions. (12)

[P.T.O.]

SECTION - C

(a) Explain why phenol is more acidic than ethyl alcohol.(b) What is Friedel-Crafts alkylation and their mechanism?

6. Discuss the mechanism of S_N1 and S_N2 reactions of alkyl halides. (12)

SECTION - D

- 7. (a) How are ketones prepared? Describe their important reactions. (6)
 - (b) Write short note on Reimer-Tiemann reaction and Kolbe reaction. (6)
- 8. Explain the resonance stabilization of allyl cations: hyper conjugation. (12)

SECTION - E

- 9. Attempt all questions.
 - (a) What happens when ethyl chloride is treated with sodium metal?
 - (b) A triple bond consists of.....bonds.
 - (c) What happens when sodium benzoate is heated with soda-lime?
 - (d) The number of structural isomers of alcohols with molecular formula C₄H₉OH is.....?
 - (e) Grain alcohol is another name for....?
 - (f) Lucas test is used to determine the type of.....?
 - (g) Phenol is acidic because of.....?
 - (h) Ethers react with cold concentrated H₂SO₄ to form.....?
 - (i) Aliphatic primary amines react with cold nitrous acid to form.....?
 - (j) Hinsberg's reagent is.....acid.
 - (k) A primary amine can be identified by using.....+ KOH.
 - (l) The reduction of ketone always gives......alcohol. (1×12=12)