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H-BP-202

B.Pharm. (Sem.-II) Examination, June 2022

PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time Allowed : Three Hours

Maximum Marks : 75

Minimum Passing Marks : 28

Note : This question paper is divided into three sections. All sections are **compulsory**. Attempt questions as per given instructions in each section.

SECTION-A

Note : Attempt **all** questions. Each question carries **2** marks.

[10x2=20]

1. Write two uses of Paraffins. [1+1=2]

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(1)

[P.T.O.]

2. Define Stereochemistry. [2]
3. Write chemical reaction for halogenation of alkanes. [2]
4. Define Ozonolysis. [2]
5. Write reaction for free radical addition reaction of alkenes. [2]
6. Give the order of reactivity of alkyl halides. [2]
7. Draw the structures of ethyl chloride and iodoform. [1+1=2]
8. Draw the structure of Lactic acid and Tartaric acid. [2]
9. Give any one qualitative test for alcohol. [2]
10. Give the uses of Benzyl alcohol. [2]

SECTION-B

(Short Answer Type Questions)

Note : Attempt **any seven** questions. Each question carries **05** marks. [7x5=35]

1. Discuss halogenation of alkanes. [5]
2. Write an exhaustive note on stability of alkenes. [5]
3. Highlight the rearrangement of Carbocations. [5]

4. Write a note on acidity of Carboxylic acids. [5]
5. Discuss about qualitative test of Ethanolamine and uses. [5]
6. Give structure and uses of Paraldehyde, Acetone, Hexamine. [$1\frac{1}{2}+1\frac{1}{2}+2=5$]
7. Differentiate between SN_1 and SN_2 reactions. [5]
8. Draw the structures of : [$1+1+1+1+1 = 5$]
- (i) Salicylic acid
 - (ii) Dimethyl phthalate
 - (iii) Vanillin
 - (iv) Cinnamaldehyde
 - (v) Formaldehyde
9. Write a short notes on : [$2\frac{1}{2}+2\frac{1}{2} = 5$]
- (i) Nucleophilic addition
 - (ii) Electromeric effect

SECTION-C

(Long Answer Type Questions)

Note : Attempt **any two** questions. Each question carries **10** marks. [$10 \times 2 = 20$]

1. Discuss in detail the Basicity of amines and effect of substituent on Basicity. [5+5=10]
2. Discuss in detail about Aldol condensation and crossed aldol condensation. [5+5=10]
3. Describe in detail about Markownikoff's Orientation with examples. [10]

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