

School of Medical and Allied Sciences**Bachelor of Pharmacy
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 75****Sem II - BP202T- BPHT2002 - Pharmaceutical Organic Chemistry I***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | Demonstrate the structure of Salicylic acid. | K2(2) |
| 2) | Demonstrate order of reactivity of alkyl halides. | K2(2) |
| 3) | What are the uses of Formaldehyde? | K1(2) |
| 4) | Demonstrate alkene with examples. | K2(2) |
| 5) | What are the uses of Chloral hydrate? | K1(2) |
| 6) | Demonstrate electrophilic addition reactions of alkenes. | K2(2) |
| 7) | What are the uses of Vanillin? | K1(2) |
| 8) | Demonstrate structure of Chloroform. | K2(2) |
| 9) | What do you mean by functional groups? | K1(2) |
| 10) | What do you mean by organic compounds? | K1(2) |
| 11) | Organize electromeric effect with examples. | K3(5) |
| OR | | |
| | Organize qualitative tests for carbonyl compounds. | K3(5) |
| 12) | Construct the structure of compounds whose IUPAC name is 2-pentanol and 3-methylbutanal. | K3(5) |
| 13) | Compare E1 versus E2 reactions. | K4(5) |
| 14) | Construct the structure of compounds whose IUPAC name is 5-methyl-1-hexene and 1,2-dichlorobutane. | K3(5) |
| 15) | Compare SN1 versus SN2 reactions. | K4(5) |
| 16) | List the uses of dichloromethane and iodoform. | K4(5) |
| OR | | |
| | Examine free radical addition reactions of alkene. | K4(5) |
| 17) | Analyze allylic rearrangement. | K4(5) |

18) Elaborate the qualitative tests for aliphatic amines and ester. K6(10)

19) Explain the structure and uses of Glycerol, Propylene glycol and Ethyl alcohol. K5(10)

OR

Explain the mechanism and synthetic applications of Benzoin condensation. K5(10)