

**SNS COLLEGE OF PHARMACY AND
HEALTH SCIENCES, COIMBATORE-641035**



QUESTION BANK

Subject : PHARMACEUTICAL ORGANIC CHEMISTRY-II UNIT -1 BENZENE AND ITS PROPERTIES

S.No	Question	Marks	Bloom's Taxonomy Level (BLT)	Source (TNMMU/GPAT)	Topic Mapping (GPAT Syllabus)
1	Define aromatic electrophilic substitution reactions. Discuss the reaction and mechanism of Nitration, Halogenation, Sulphonation, Friedel-Crafts alkylation and Friedel-Crafts acylation.	10	Applying	TNMMU March 2019	Aromatic Electrophilic Substitution (Unit 1 – Pharmaceutical Organic Chemistry)
2	Explain the facts supporting Kekule structure of Benzene. Briefly discuss about activating and deactivating groups in Benzene.	10	Understanding	TNMMU September 2019	Structure of Benzene, Activating/Deactivating Groups (Unit 1)
3	Explain about Resonance theory of benzene.	5	Remembering	TNMMU March 2019	Resonance & Aromaticity (Unit 1)
4	Draw the orbital picture of Benzene and write a note about it.	5	Analyzing	TNMMU September 2021	Molecular Orbital Theory of Benzene (Unit 1)
5	Give an account on Huckel's rule of aromaticity and orbital theory of benzene.	5	Applying	TNMMU October 2022	Huckel's Rule, Aromaticity, Orbital Picture (Unit 1)
6	Structure and uses of DDT and BHC.	2	Remembering	TNMMU March 2019	Polynuclear Hydrocarbons & Halogenated

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					Compounds (Unit 5/Unit 3)
7	Give the structure and uses of Saccharin and Chloramine.	2	Remembering	TNMMU May 2022	Heterocyclic Compounds & Medicinal Applications (Unit 4/Unit 5)
8	Mechanism of Halogenation of benzene.	2	Remembering	TNMMU March 2019	Electrophilic Aromatic Substitution – Halogenation (Unit 1)
9	Define hybridization.	2	Understanding	TNMMU January 2021	Basic Concepts in Organic Chemistry (Unit 1)
10	Write the Friedel-Crafts reaction of benzene.	2	Understanding	TNMMU December 2023	Friedel-Crafts Alkylation/Acylation (Unit 1)