



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
COMMERCE & SCIENCE
COLLEGE,** AT POST NALWADI, DIST. WARDHA (M.S.)

Accredited 'B' by NAAC

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Affiliated to Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur

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QUESTION BANK

PAPER II (*ORGANIC CHEMISTRY*)

2022 - 2023

M.sc 1st semester

1. Explain :
 - (i) Hyperconjugation
 - (ii) Aromaticity in benzenoid compounds.
2. Explain the aromaticity in tropene and tropolone. Also give one method of their synthesis.
3. Give an account of :
 - (i) Crown ethers
 - (ii) Catenanes.
4. What are stereospecific and stereoselective reactions ? Explain them with the help of two examples of each.
5. Explain the following terms :
 - (i) Chirality and
 - (ii) Threo and Erythroisomers.
6. What is isotopic labelling ? How is it used to establish mechanism of a reaction?
7. Write statement and explain the mechanism of Von-Richter reaction.
8. Write mechanism of:
 - (i) Smiles rearrangement
 - (ii) Gatterman Koch reaction.

9. Explain the following:

(i) Electron Donor-acceptor complexes

(ii) Inclusion compounds.

10. Differentiate the following:

(i) Hard and soft acids

(ii) Classical and non-classical carbocations.