



**Mahila Vikas Sanstha's**

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

**Accredited 'B' by NAAC**

Approved by government  
of Maharashtra

Affiliated to Rashtrasant Tukadoji  
Maharaj Nagpur University, Nagpur

Recognised by U.G.C New Delhi  
under section 2 (f) & 12 (b) of  
UGC act 1956

## QUESTION BANK

### PAPER II (ORGANIC CHEMISTRY)

**2022 - 2023**

#### **M.SC 2<sup>nd</sup> SEMESTER**

1. Give the mechanism of Perkin reaction.
2. Explain regio and chemoselectivity involving in hydrogenation of double bonds.
3. Comments on aldol condensations involving enolate ion.
4. State mechanism and orientation in pyrolytic elimination.
5. Discuss how 1,2 shift is involved in Pinacol-Pinacolone rearrangement.
6. Give the working conditions and requirements of Fenton's reagent in chemical synthesis.
7. Differentiate Multi-Component Reactions (MCR) convergent paths with conventional non MCR paths.
8. Comment on role of biocatalysts in organic synthesis.
9. Give significance of sonic and microwaves in synthesis.
10. Write notes on :
  - (i) Solvent free reactions
  - (ii) Zeolites in synthesis
  - (iii) Ionic liquid supported reaction.