



# IDEAL CENTRE OF CHEMISTRY

(Only Chemistry Institute)

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**TIFR (Tata Institute of Fundamental Research) GS-2016 Study materials and suggestion for Integrated M.Sc.-Ph.D, M.Sc., Ph.D Course.**

## Feature of study materials

- Physical, Organic and inorganic chemistry contain separate study materials
- ☐ **Physical chemistry**
  - Arrangement of “Theory portion” is highly student friendly and is designed keeping the question solving approach in mind e.g. from the Maxwell relation we can tell easily whether the reaction is spontaneous or not.
  - Spectroscopy portion(theory and application in organic and inorganic molecule ) is clearly explained in a precise way so that it can be covered in a very short time.
  - Group theory, quantum mechanics, Huckel theory, Chemical kinetics , Thermodynamics Solid state, Polymer chemistry, Data analysis is covered in details .
  - Smart method to solve short & broad questions
- ☐ **Organic chemistry**
  - Each and every chapter is covered thoroughly in the study materials.
  - It contains detail description of different types of rearrangement reactions, intermediate (carbocations, carbanions, carbenes, nitrenes, benzyne, free radicals.), oxidation ,reduction etc.
  - Reagents of organometallic compound like Pd, Cu, Zn, Mg, Li, B, Si used in synthetic organic chemistry are also covered in details in the study material
  - Photochemistry portion of organic molecule is described in a short and concise way with a special importance on the reaction mechanism
  - Organic spectroscopy portion is clearly elucidate in the study materials.
- ☐ **Inorganic chemistry**
  - Bio inorganic chemistry portion depicted in such a way so that student can remember in an easy manner.
  - Description of S and P block elements is covered in a easily memorable approach in the study materials.
  - Study materials also covers description of Transition elements, Organometallic compounds, Cages and metal clusters in a compact manner.
  - Smart methods to solve short & broad questions. e.g. Is  $Fe_3O_4$  normal/inverse spinel ? Does it conduct electricity ?
  - Instrumental methods of analysis portion is also included in this study material.
  - IR, Raman, NMR, EPR, Mössbauer, UV-vis, NQR
  - Entire syllabus is covered in study materials.

NET-2015 (II) CHEMICAL SCIENCE SUCCESS Within 15 days

Suggestion with study materials free details-  
for NET-2015(II)-December, 15000 + Postal charge