

Nehru Memorial College, Sullia

Department Of Chemistry 2020-2021

Online Class Link

MRS ASHWITHA A.C

I B.Sc

Unit-2

Chemical bonding

Introduction, Types of chemical bonding

<https://drive.google.com/file/d/15V12aeun2I33e5z0w1q-Mk2snP8EU8pp/view?usp=sharing>

Types of hybridisation and shapes of the orbital types of hybridisation with examples

https://drive.google.com/file/d/10TShH6bfEU4TcdXoalYa6aSmgvOu_7vq/view?usp=sharing

Valency shell electron pair repulsion theory-Postulates of the theory

https://drive.google.com/file/d/13DGLzJAoO6KucXAh_g-8qV-b9C5xk8tJ/view?usp=sharing

Comparative study of NH_3 and NF_3 molecule and ClF_3 and XeOF_4 molecule

https://drive.google.com/file/d/13eWbr6cXkHNOODHcR2aXu0me_lFELNg3/view?usp=sharing

Molecular orbital theory- Postulates, formation of BMO and ABMO

<https://drive.google.com/file/d/18d-oXWU1PpFcgsajIzgIB7DI4kHa1TCg/view?usp=sharing>

II B.Sc

Unit- I

Thermodynamics

Introduction

<https://drive.google.com/file/d/10GT7MOBR2G2KD8qq-B5i2zqIhqfg-XXs/view?usp=sharing>

Properties of system, state function and path function

https://drive.google.com/file/d/10d2wosLN9pcV9fFrS_Vzt_EsNs-Wtwu6/view?usp=sharing

Derivation of C_p and C_v

https://drive.google.com/file/d/13bGKU9FtItJTB_dNB3n7yKcNXrTCUT0h/view?usp=sharing

Joule's law and Joule-Thomson effect

<https://drive.google.com/file/d/15Gb2GJ3lSVXshUOAi3evZLGlr7CJ-6L1/view?usp=sharing>

Derivation of Joule-Thomson coefficient of a gas

https://drive.google.com/file/d/15i1MN_ELxCRtI7DekmUUxMtegdhfcMw/view?usp=sharing

Application of Joule-Thomson equation for real gases

https://drive.google.com/file/d/16O_jsystGakoU7HfO_luSB1hygRybDp/view?usp=sharing

Bond energy, Definition and enthalpy of formation, problem

https://drive.google.com/file/d/16g_Bx55XSnNo9nBYuJN1OrxqsIOiJ9VH/view?usp=sharing

Kirchoff's Equation -Problem, Limitation of I law of T.D

https://drive.google.com/file/d/108sCi9f4Buo_Vu2WK6mYWL7oAC2ZFcLu/view?usp=sharing

II law of T.D Statement, Spontaneous process

<https://drive.google.com/file/d/10WPvfpoqRinoVkJtU6iR9STnxc5IUvf5/view?usp=sharing>

Carnot's Cycle derivation of efficiency of heat engine

<https://drive.google.com/file/d/12T1QB1bfIKPF1eoTUzPEaMbnZfoCTsyP/view?usp=sharing>

Variation of entropy change w.r.to V and T, Pand T

<https://drive.google.com/file/d/14Z2TlOJO5YZzY8P5la3dOEK5lKAUehtK/view?usp=sharing>

Entropy change during different process

https://drive.google.com/file/d/17UFzI3K_-tmvqdf3T1igXqvY5kR0onJL/view?usp=sharin

Entropy of an Ideal gas, Clausius inequality

<https://drive.google.com/file/d/191aygpKWuWQH48zmWh5LtC-RJ0T4oWw/view?usp=sharing>

Solved problems on change in entropy w.r.to P, V, T, mole fraction

https://drive.google.com/file/d/1-HI3wZu8XgCckLlI7jEV_nADfSK9yk98/view?usp=sharing

III law of T>D, statement, application

<https://drive.google.com/file/d/1-tDJ3rJlnZgwD17T2ocnrNpOJ7HRVPTO/view?usp=sharing>

Variation of Helmholtz free energy with T and V, Variation of A with T during Isochoric process and Isothermal process

https://drive.google.com/file/d/10Aaf_UwygVW8Tm56V17Nu001O5FEyvq1/view?usp=sharing

III B.Sc

Paper V

Unit I

Thermodynamic and Kinetic aspects of metal complexes

Introduction, Stability of the complexes, Factors affecting on Stability of the complexes, Chelate effect, Labile and Inert complexes, Substitution reaction of Square planar complexes.

<https://drive.google.com/file/d/1-iSYRTQfCVn2Dh1T78KZC1DnkfrnlyMD/view?usp=sharing>

https://drive.google.com/file/d/10NF52CWl6RCLLgNb2n_5qHyo-oMtzySk/view?usp=sharing

<https://drive.google.com/file/d/10rLRCJP0HtASLXxJxzPKVBLjlBLy3VlO/view?usp=sharing>

Magnetic properties of transition metal complexes

Introduction, Types of magnetic moment

<https://drive.google.com/file/d/156zyCtQM2wFiDGYmnOYxakhJgFB3I7pm/view?usp=sharing>

Magnetic induction, flux density, magnetic moment and magnetic susceptibility

https://drive.google.com/file/d/17FDTsz9DWzQFfXXnsS5ET_ZMXRL3LFdl/view?usp=sharing

Types of magnetic phenomena

<https://drive.google.com/file/d/1-L7CrZnnfLqjL-88ET85zR6nSyPL4ewC/view?usp=sharing>

Mechanism of pairing of total electron spin/ temperature dependence of magnetic properties

https://drive.google.com/file/d/1-bNj_-5LHNXG7E1TSsBasUezV1vhRBhO/view?usp=sharing

Experimental determination of magnetic susceptibility by Guoy's method

https://drive.google.com/file/d/1-gyhyrUcgsv_LfPuJrzDx9iUTMngdNZc/view?usp=sharing

Source of error, factors determining paramagnetism of transition metal complexes

https://drive.google.com/file/d/11KscEOTc-OJY_hCBnxu9ELlBj1puCqd6/view?usp=sharing

Paper VI

Unit II

Thermoanalytical Methods

Introduction, Types of Thermal analysis

<https://drive.google.com/file/d/13PLPBvaiJ-Wf8rSBwI7W0wd62ecAszfy/view?usp=sharing>

Thermogravimetry, DTG and DTA

<https://drive.google.com/file/d/143gJnnwdUIHbqkYGUskF7lw0qaboFfuB/view?usp=sharing>

Flame Photometry

Principle, Instrumentation

https://drive.google.com/file/d/14jfOQQ_uxGUGqxCYUPZzMmOXyUG85_-j/view?usp=sharing

Interferences Present in flame photometry

https://drive.google.com/file/d/15qOaKGu2CAyz_dKoqXo5GVxmXsGpTItV/view?usp=sharing

Electronic Spectra of transition metal complexes

Introduction

https://drive.google.com/file/d/16ECDAhKggBzGjFF4L7RkxIXMFuAgLu_S/view?usp=sharing

Spin-Orbit coupling, J-J coupling for d^2 system

<https://drive.google.com/file/d/1-h0QgfbamZLL-29i1jY0IyEW4tUE9I5P/view?usp=sharing>

<https://drive.google.com/file/d/1-jmp4JO2OAMb7Jk7ZCSFIgoZ1M1mUwZu/view?usp=sharing>

Microstate, Calculation of microstate for d^2 system

<https://drive.google.com/file/d/10l0IIygpOkxIetr48lcrprGNmeBJd4NM/view?usp=sharing>

Examples of spectroscopic ground state for half filled and more than half filled d-orbitals
https://drive.google.com/file/d/10nAJg51zJLo2eO_VwFfJ20Z7Sknwkd5d/view?usp=sharing

Terms generated from d^n configuration in octahedral and tetrahedral ligand fields. Rules for d-d transition
<https://drive.google.com/file/d/11qh4iVSRxJsYjwxba7SriULQzc32woRG/view?usp=sharing>

Relaxation of selection rules, Orgel energy level diagram for d^1 and d^9 system
https://drive.google.com/file/d/14HKY5Vw0eNVhHwa_P5UZykOpjM2d-x_M/view?usp=sharing

MS.PRANEETHA B P

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Unit-IV Methods of analysis

Qualitative analysis-Sample size and techniques, Types of tests

<https://drive.google.com/file/d/1M6SnpZtNH1G-UQlaVXaCJ1ciinoEqXKW/view?usp=sharing>

Quantitative Analysis-Volumetric Analysis

<https://drive.google.com/file/d/11qD096G8IPN4esRMzFQOtOF8AbBZ7KUF0/view?usp=sharing>

Gravimetric Analysis- Principle, methods of precipitation, optimum conditions for precipitation and co-precipitation

<https://drive.google.com/file/d/1c46dMgz6xcVJlvhxr-BYq1vWu-xduzG/view?usp=sharing>

<https://drive.google.com/file/d/1IU-x6HPLjY-28ttYHXWo8t4DbqC5l-1R/view?usp=sharing>

<https://drive.google.com/file/d/1oMWYr0grFDOcOQWcg-dXrL2xP8N4rJSF/view?usp=sharing>

Instrumental methods of analysis, Solvent extraction

https://drive.google.com/file/d/1fB2mC_tFII8WybhMa5zGQF3V6iPetXr-/view?usp=sharing

Application of solvent extraction

https://drive.google.com/file/d/1UVxkkYK_cyg1g8ryi4uNfjN6L-GZINnb/view?usp=sharing

Errors in Qualitative analysis

<https://drive.google.com/file/d/10NzBt9TiQ-VF6jpeTH7MnEvKbAYbHDdQ/view?usp=sharing>

Mean, median, range and accuracy

<https://drive.google.com/file/d/18PPICzLN9WJsSdxST2SDyeod2vwtY3fV/view?usp=sharing>

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Unit-II Chemistry of d and f block elements

d block elements

General electronic configuration, General characteristics.

https://drive.google.com/file/d/1SDE6GVm8az2YfuAPzCl8-ZhF_XKY_Msg/view?usp=sharing

Stability of oxidation states and complexing ability, Magnetic property, Expression for magnetic moment-Spin only formula, Lande's formula, Comparative treatment of 4d and 5d series with their analogues

https://drive.google.com/file/d/1ILTtbYZIb3MzFzYSNvBBFVMaNC2g_3Sb/view?usp=sharing

<https://drive.google.com/file/d/1WJEefnhzVJXc1H8HjBzIYQ9X0WyZkxcj/view?usp=sharing>

<https://drive.google.com/file/d/1a7D5cyVmSk2J6CkquDZIZknCQikM0OaB/view?usp=sharing>

f block elements

Introduction, Lanthanide contraction-causes and consequences, occurrence.

<https://drive.google.com/file/d/1hiL9rLLZZwoiU7QiTsY68TnuFJf6clp9/view?usp=sharing>

Isolation of Lanthanides by ion exchange method, Comparison between Lanthanides and Actinides

https://drive.google.com/file/d/1fzbhdj7pL_qVV75DDxdc0V55VgACQCq2/view?usp=sharing

Separation of Neptunium, Plutonium and Americium from Uranium, Calculation of magnetic moment of Lanthanides

https://drive.google.com/file/d/1n6BN_B-RaWmXm61UeOYxxj10Pf0FuTGh/view?usp=sharing

Unit-III Oxidation and reduction

Introduction, Use of redox potential data-thermodynamic feasibility using free energy, reducing and oxidizing tendency

<https://drive.google.com/file/d/1JhMEaIsSYUOpkVuSmi5q8nzzOGIq9tCI/view?usp=sharing>

Application of redox potential data

<https://drive.google.com/file/d/1Yy7NLK6nzsOO04-BcRwtSu3BqQk4CddU/view?usp=sharing>

Latimer diagram

<https://drive.google.com/file/d/1H8GEJ2nYYjjH4OLz8wIHQtMb2180FJTz/view?usp=sharing>

Frost diagram

https://drive.google.com/file/d/1egD55J-DzEnmKfPH2k_zW3vhieSkk0aJ/view?usp=sharing

Redox stability in water

<https://drive.google.com/file/d/1I936J5hhN-EjlCM8pwYIoxGSX-XftHOI/view?usp=sharing>

Pourbaix diagram

https://drive.google.com/file/d/1WCcV2VJQjnzdmMV9GxEjJ_8FWEWdgYlX/view?usp=sharing

Unit –III

Acids and bases

Introduction

https://drive.google.com/file/d/1dXrqH8_gh18uDhnTYQMJYZ875vQPuCRY/view?usp=sharing

Lux Flood Theory

<https://drive.google.com/file/d/1dIctSXYmWLjhrySSdi5wppgoIfT2HXU6/view?usp=sharing>

III B Sc

Paper V

Unit-II Electrochemistry

Introduction

<https://drive.google.com/file/d/1PRfFpuwLvCkCmRRsx9GLtn4axXA9YVO0/view?usp=sharing>

https://drive.google.com/file/d/1k-kI173BKyJsi_OF1bs6nl1mxckeW6Jg/view?usp=sharing

Specific and equivalent conductance, Relationship between specific conductance and equivalent conductance

https://drive.google.com/file/d/1LKpOI9U5V_wWkJgQYw0URuafFuSuHJBT/view?usp=sharing

Determination of resistance of a solution, Determination of equivalent conductance of unknown electrolyte, Transport Number

https://drive.google.com/file/d/18Ghui_BILPkUISxr18EHF-zt0puunAoo/view?usp=sharing

Determination of transport number by Hittorf's Method

https://drive.google.com/file/d/1JvSwcnp2UftU2V_ohC9zo-WfZe7X-nZX/view?usp=sharing

https://drive.google.com/file/d/1uV_8Ti1WhFT3vdlYhNiLLv_OOYBEods/view?usp=sharing

Determination of transport number by Moving Boundary Method

https://drive.google.com/file/d/1Y4i5YxetuBwYroKiHl9_BHp35sUIFFHx/view?usp=sharing

Anomalous Transport number, Application of conductance measurements

<https://drive.google.com/file/d/1iQtWkKDJPblwPDEjSS9YW7ZOdUPZewih/view?usp=sharing>

https://drive.google.com/file/d/1vati-EfhnHq1PKCuNT_y4gGrSa-upRTu/view?usp=sharing

Problems

<https://drive.google.com/file/d/18jy7BhyPYuAH9SdqtfVSEltctqw9NvbD/view?usp=sharing>

<https://drive.google.com/file/d/10tbqPeWC6sGKyVSlb789mPqGnSNCx8Ki/view?usp=sharing>

Conductometric titrations

https://drive.google.com/file/d/16os95h3Cs9nC4A6J9Rte_h3PU6pumcLt/view?usp=sharing

https://drive.google.com/file/d/1KmOKQjy9aq_C50aWPyxK0WVV10rrTnF4/view?usp=sharing

https://drive.google.com/file/d/1VKolf_Erd_3LAgrPLeurwsiXG4zSKBYN/view?usp=sharing

Electromotive force, Theory of Daniel cell, Electrode potential, Nernst Equation for cell EMF, Electrochemical conventions

<https://drive.google.com/file/d/1GcRgtHVvOSwN6MEQIbuaqZsXp6YpyqNB/view?usp=sharing>

Nernst equation for cell EMF, Liquid junction potential

<https://drive.google.com/file/d/1Ezl03pzn87MH8cG6SCHYHAv2oeIUhXNP/view?usp=sharing>

Electrochemical Series and its applications

https://drive.google.com/file/d/1r2zl0QQsKqqYObNmb6_3fYtjr_L5wKeC/view?usp=sharing

Measurement of EMF of a cell

<https://drive.google.com/file/d/1MpdXdChVbwXOqqK2wc-VV1yaZ9mxon3z/view?usp=sharing>

Types of Electrodes: Standard Hydrogen Electrode-Construction, working and limitations

https://drive.google.com/file/d/1egD55J-DzEnmKfPH2k_zW3vhieSkk0aJ/view?usp=sharing

Calomel Electrode: Construction and working

<https://drive.google.com/file/d/1S0y8AmmcMOpezsIW9InqKYu-AYRYsSVq/view?usp=sharing>

Metal-metal insoluble salt electrode

<https://drive.google.com/file/d/1KoI7Lmb21ExDAZuvFqloi-TeW4EMQOJ5/view?usp=sharing>

Measurement of single electrode potential by using Calomel electrode

Determination of p^H using hydrogen electrode

<https://drive.google.com/file/d/17DHmC01idR-NJDsayMGrVDkJnH7R6T4D/view?usp=sharing>

Quinhydrone electrode-Determination of p^H using quinhydrone electrode

<https://drive.google.com/file/d/1etov82gszUD149NCvz9mw5jAN6FQTS9N/view?usp=sharing>

Fe²⁺/Fe³⁺ Electrode, Potentiometric titrations –Introduction

<https://drive.google.com/file/d/1oSCdGX1GGY-PSQSSff7ZmSb7t7J1ehB1/view?usp=sharing>

Potentiometric titration : HCl verses NaOH and Ferrous ion against Potassium dichromate

<https://drive.google.com/file/d/1CaaYQ0DU4vNzRvGqdYPWOGbNiyu5FT2h/view?usp=sharing>

Glass electrode-construction, working, advantages and disadvantages, measurement of p^H using glass electrode

<https://drive.google.com/file/d/1--d1CD3VQ7HTHyTzJU-mMoDHNsDPH4y0/view?usp=sharing>

Concentration cells and problems

<https://drive.google.com/file/d/1euwHt3e1SYc4oZ-uKTqLXCGzei8EO1QL/view?usp=sharing>

<https://drive.google.com/file/d/1EiQ6UjTkurM6DxVgxFrkdMHjROJHzBzg/view?usp=sharing>

<https://drive.google.com/file/d/1ymoliJ8H4n2yiGV0yNf-Ya600SDwm4c-/view?usp=sharing>

<https://drive.google.com/file/d/1dPznYAqmWwzW281ZXFz453ADDHwPh3LF/view?usp=sharing>

Overvoltage

<https://drive.google.com/file/d/14AiR1HZq5WKz0vkr0EYyUQEuNa-xBBYU/view?usp=sharing>

Unit-IV

Stereochemistry of organic compounds

Structural isomerism

<https://drive.google.com/file/d/1gCHuNoqIPEUAmzkGQ8zLygIXV8Ln4u7L/view?usp=sharing>

Stereo isomerism:Geometric isomerism Introduction

https://drive.google.com/file/d/19BGDUr4yS6He_dDfHRwx4uuZnIVYTfY-/view?usp=sharing

Geometric isomerism in alkenes

<https://drive.google.com/file/d/1DWGhHDsQpv0evNBAKSV6qvWMHYpwniTi/view?usp=sharing>

Geometric isomerism in alicyclic compounds and oximes

<https://drive.google.com/file/d/1AA4ICRQd77kJ6M9V5rx0dh4joPCwuzZE/view?usp=sharing>

Determination of configuration of cis trans isomers

<https://drive.google.com/file/d/1mmNiTV5OcbNmK6XlsjsDiJfsZPwaiRIZ/view?usp=sharing>

Explanation for geometric isomerism by using ball and stick model, Introduction to optical isomerism

https://drive.google.com/file/d/1GaQAtENH5zMV__qkcGNLOj8qQS_B2Flq/view?usp=sharing

Mrs. Harshakirana B.R.

I B.Sc

Unit-1-Solid State

Introduction to Solid state.

<https://drive.google.com/file/d/1psqoXA929xSjYAvgtkzcdR7Rak1c0A9J/view?usp=sharing>

Crystalline and amorphous solids, space lattices, unit cell lattice, Bravais lattice

https://drive.google.com/file/d/1ecq04KSglZxa34rFQMyh5OGPpWVQ_zJM/view?usp=sharing

Crystallography, laws of crystallography

<https://drive.google.com/file/d/18RGldi3dLIS4urYrSt-iWOVX2r5NXuT2/view?usp=sharing>

Lattice planes and Miller indices

<https://drive.google.com/file/d/18RGldi3dLIS4urYrSt-iWOVX2r5NXuT2/view?usp=sharing>

Determination of perpendicular distance between two planes

<https://drive.google.com/file/d/1M45MUpw7gzEwTO1M35DIZdzgZ9o2cJf7/view?usp=sharing>

X-ray diffraction, derivation of Bragg's equation.

https://drive.google.com/file/d/1mTIOmoup_db6oXmoG5-LOTXmAWs3z1LU/view?usp=sharing

Determination of crystal structure of NaCl by Bragg's method and determination of Avogadro number

https://drive.google.com/file/d/1RS74uoNy2KifMfAkaIdbTFt_g77Zqduq/view?usp=sharing

<https://drive.google.com/file/d/1vkQiau0AmRUF-jEl7yzZxk3W0JVD8AFD/view?usp=sharing>

Ionic crystals- Structure of Caesium chloride

<https://drive.google.com/file/d/101Ekd2ghLAtkCViVpRe6ufBeYwKlcWKu/view?usp=sharing>

Structure of Zinc blende

<https://drive.google.com/file/d/1X4e6q3fTFF0F0Sz19Hhwa3LGgcNT5Cxn/view?usp=sharing>

II B.Sc

Unit- 4-Reactions and reactivity of phenols

Classification and acidity of phenol, resonance stabilisation of phenoxide ion

https://drive.google.com/file/d/1KZji0e_Fe9_amR9Y8OH5k4yZmUhE7cne/view?usp=sharing

Comparison of acidic properties of phenols with alcohols

<https://drive.google.com/file/d/1WdIsOHWolPaoJhLj103wtpXrFgh1S6pp/view?usp=sharing>

Comparison of acidic properties of phenols with carboxylic acid

<https://drive.google.com/file/d/1JZhppIq5spjbazsraNw7pXTL8V08rdvA/view?usp=sharing>

Comparison of acidic properties of phenols with carbonic acid

<https://drive.google.com/file/d/1rM0QtaSwqWKNKi4umRcKURYQRUAPt2W/view?usp=sharing>

Fries rearrangement , Claisen rearrangement and mechanism

https://drive.google.com/file/d/1fWK7XD4J_GConwHPH8SMBzujP4fPZUNA/view?usp=sharing

Gattermann synthesis and mechanism.

<https://drive.google.com/file/d/1Ftjk04LBsek-QMR1O6in1T1wQ0FRAYhW/view?usp=sharing>

Mannich reaction and mechanism

https://drive.google.com/file/d/1awl4uHfxT9yPvVJvyvj7X_ckgyAKiugj/view?usp=sharing

III B.Sc

Paper VI

Unit 4- Heterocyclic compounds

Introduction and classification of heterocyclic compounds

<https://drive.google.com/file/d/10BGWUA4tayC0goHwrUoLp8nhNUqyOsX8/view?usp=sharing>

Classification and nomenclature of heterocyclic compounds

<https://drive.google.com/file/d/1zVhIH40ExFfBlzMgZlvT2Pw5yilu5Usj/view?usp=sharing>

Aromatic property and molecular orbital picture of Furan

<https://drive.google.com/file/d/1d1M471UJGfzHf9vRA3-55AkeMHX0W9tf/view?usp=sharing>

Aromatic property and molecular orbital picture of Thiophene

<https://drive.google.com/file/d/1UC8ZjEEbKCwHuOyvtfmHZVv3REcJT7-H/view?usp=sharing>

Aromatic property and molecular orbital picture of Pyrrole

<https://drive.google.com/file/d/15ctfW0mXkDCbUisP9JAm2ou8iTazUZoe/view?usp=sharing>

Aromatic property and molecular orbital picture of Pyridine

https://drive.google.com/file/d/17-OIDAPn_c7j8duTBFk0eYtMds50wz1M/view?usp=sharing

Aromatic property and molecular orbital picture Oxazole

https://drive.google.com/file/d/1GBLkSMFRuM1aVnUOZdv_0JIumdfMmC/view?usp=sharing

Aromatic property and molecular orbital picture of Thiazole

https://drive.google.com/file/d/1U1y9jK3yJpL0GtiBJqTWNz_LlbAs6Kvz/view?usp=sharing

Relative aromaticities of furan , pyrrole and thiophene

<https://drive.google.com/file/d/1FazXHwJ6kZtB2vm-POLm4XiD225rGHqf/view?usp=sharing>

Relative aromaticities of pyrazole , oxazole and thiazole

<https://drive.google.com/file/d/10XBM8mOyHkVRz4KpwhBMGwTcAqSYd6zk/view?usp=sharing>

Methods of synthesis and reactions of Furan

<https://drive.google.com/file/d/1IUvDqnOKkx-OuuM2BF-zihueUtBhlept/view?usp=sharing>

Methods of synthesis and reactions of thiophene

<https://drive.google.com/file/d/1X7Ma8CeUlAWKGrm77NXicMvYx4HlzVzO/view?usp=sharing>

Methods of synthesis and reactions of pyrrole

https://drive.google.com/file/d/1KYS1LUydg_bNJOW6oTMniffnCini9XYH/view?usp=sharing

Methods of synthesis and reactions of pyridine

<https://drive.google.com/file/d/1tYBzSKvoU94dkYQ4Gb8kmtHn2trAYdwM/view?usp=sharing>

Comparison of basicity of pyridine, pyrrole and piperidine.

<https://drive.google.com/file/d/1QowZcidIJXuxRE-axq9B3inLBhIkXLXY/view?usp=sharing>

Methods of synthesis and reactions of pyrazole

https://drive.google.com/file/d/1Qnv_m0rOCsJTty2touW56oEm8G8nUZ9HY/view?usp=sharing

Methods of synthesis and reactions of thiazole

<https://drive.google.com/file/d/1ScFaOg4obuNHEJv02CTNsUml1hIoKzzS/view?usp=sharing>

Methods of synthesis and reactions of oxazole

<https://drive.google.com/file/d/1J72e0DCNBPMcvovd5SdCHZHkF1RH-Ga0/view?usp=sharing>

Methods of synthesis and reactions of Indole

<https://drive.google.com/file/d/1PdkwyLoY-Ej4V1PGMOCd4kKAHGoOtuPE/view?usp=sharing>

Methods of synthesis and reactions of Quinoline

<https://drive.google.com/file/d/1LCNQe0Oprg4gfzOWzE5LQlBHtfwBVHY5/view?usp=sharing>

Methods of synthesis and reactions of Isoquinoline

<https://drive.google.com/file/d/12WaAPTxBntEarazfEMVteV1Z6v3iEYqP/view?usp=sharing>