GOVT. LOHIA COLLEGE ,CHURU

DEPARTMENT OF CHEMISTRY

NAME –RAMESH KUMAR SESSION-2017-18

PAPER-I CLASS-M.Sc. (PREVIOUS) SUBJECT- CHEMISTRY

S.N.	MONTH	TEACHING PLAN
1.	JULY	VSEPR ,Walsh diagrams (Tri and penta- atomic molecules), dp-pp bonds, Bent rule and energetic of hybridization, some simple reactions of covalently bonded molecules.
2.	AUGUST	Stepwise and overall formation constants and their interaction, trends in stepwise constant, factors affecting the stability of metal complexes with reference to the nature of metal ion and ligand.
3.	SEPTEMBER	Chelate effect and its thermodynamic origin, determination of binary formation constants by pH-metry and spectrophotometry.
4.	OCTOBER	Limitation of Crystal field theory, molecular orbital theory, octahedral, tetrahedral and square planar complexes, bonding and molecular orbital theory.
5.	NOVEMBER	Symmetry elements and symmetry operation, definition of group sub group, relation between orders of a finite group and subgroup conjuugacy relation and classes.
6.	DECEMBER	Point symmetry group Schonfiles symbols representation of groups by matrices. Character of a representation. The great orthogonality theorem and its importance Charater tables and their use.
7.	JANUARY	Electronic spectra and magnetic properties of transition metal complexes spectroscopic ground states, correlation, Orgel and Tanabe-sugano diagram for transition metal complexes (d^1-d^9 - states) calculations of Dq,B and b parameters.
8.	FEBRUARY	Charge transfer spectra spectroscopic method of assignment of absolute configuration in optically active metal chelates and their chemical information. magnetic moments magnetic exchange coupling and spin crossover.
9.	MARCH	REVISION

RAMESH KUMAR
Assistant Professor
Department of chemistry

LOHIA COLLEGE, CHURU

DEPARTMENT OF HISTORY

TEACHING PLAN - SESSION – 2017-18

TEACHER – K S KOTHARI
CLASS - BA PART 1
PAPER – I – HISTORY OF INDIA (FROM EARLIEST TIMES TO 1206 AD)

MONTH	UNIT	TOPIC
JULY – 2017	I	Introduction. 1. Impact of Geography on Indian History and Culture. 2. Main sources of Ancient Indian History.
AUG – 2017	I	3. Features of Indus Civilization; Society, Polity, Economy, Culture and religion as reflected in Vedic literature. 4. The rise of Janpadas and Republics.
SEP – 2017	II	1. Rise of Magadha upto the Nandas. 2. Magadha Imperialism and role of Chandragupta Maurya. 3. Chakravarti Ashoka - His Policies and Dhamma. 4. Mauryan Administration, Cultural Achievements of Mauryan period. 5. Factors leading to disintegration of the Mauryan Empire.
OCT – 2017	III	1. Age of the Saka-Satvahans and Kushans. 2. Saka-Satvahan Struggle. 3. Satavahans and Foreign Powers.
NOV – 2017	III	4. Contribution and Achievements of (i) Pushyamitra Sunga (ii) Gautamiputra Shatkarni (iii) Rudradaman I (iv) Kanishka I 5. Economic Progress in the Pre-Gupta period with special reference to trade and commerce.
DEC – 2017	IV	1. Early history of the Gupta Dynasty upto Chandragupta-I 2. Samudragupta. 3 Chandragupta-II. 4 Skandgupta.
JAN – 2018	IV	5 Invasion of Huns. 6 Features of Gupta administration. 7. Cultural Revivalism in Gupta period. 8 Emergence of Sci entific view of the world.
FEB – 2018	V	1 India in the Post-Gupta period. 2 Formation and Expansion of Vardhana Empire -Harsh 3 Features of Chola and Charlukya administration 4 Achievements of (i) Vigraharaja Chahamana (ii) Kumarapal Charlukya and (iii) Bhojaj Pramara 5. Tripartite Struggle 6. Pallavas. 7. Sangam Age- Literature, Society and Culture 8 Factors leading to disintegration of Rajput states
MAR – 2018	V	Revision

Govt Lohia College, Churu

Department of ABST

Detailed teaching plan

Session- 2018-19

Class- MCom (F) ABST

Paper- I : TAXATION-INCOME TAX LAW & ACCOUNTS

Name of Teacher – Prof. Suresh Kumar

Month	Topic to be taught
July	Introduction and definitions, Residential Status and incidence of tax
August	computation of taxable income under the head salary.
September	Computation of taxable income under the heads : income from house property, income from business or profession
October	Computation of income from capital gains, Income from other sources Aggregation and clubbing of income, set off and carry forward of losses, Exempted incomes.
November	Deductions from Gross Total income, Computation of total income and tax liability of individuals
December	Computation of total income and tax liability of Hindu Undivided family
January	Computation of total income and tax liability of partnership firms assessed as such and assessed as Association of Persons
February	Provisions regarding deduction of tax at source and Advance payment of tax. Assessment procedure
March	Discussing and solving previous years papers

2/2/24

(prof. Suresh Kumar)

GOVT LOHIYA COLLEGE

Churu

Teaching Plan FOR

B.Sc III - Paper II nd.

Chemistry

Session.

2019 - 2020

Months		
July:	Spectroscopy (N.M.R.)	Unit I
Aug:-	Structure elucidation by UV, IR and PMR.	Unit I
[redacted]	Organometallic Compounds	Unit II
Sep:-	Fats, Oils and Detergents.	Unit II
	Organic Synthesis via Enolates	Unit III
Oct:	Amino Acids, Peptides, Proteins	Unit III
Nov:	Nucleic Acids	Unit III
Dec:-	Carbohydrates	Unit IV
Jan:-	Synthetic Polymers	Unit V
Feb:	Synthetic Dyes	Unit V

From:- Dr Renu Agarwal
(Associate Professor
Chemistry -

GOVT LOHIA COLLEGE CHURU

DEPARTMENT OF MATHEMATICS

TEACHING PLAN FOR THE SESSION 2019-20

Date 01/07/2019

FACULTY MEMBER: Dr Purushottam Jharotia, Assistant Professor

B. Sc. Part I B

SUBJECT MATHEMATICS PAPER I (ALGEBRA)

R. No 140 TIME 11:00 AM 12:00 NOON

MONTH	UNIT	TOPIC to be taught
JULY	I	Relation between roots and coefficients of general polynomial equation in one variable, transformation of equations, Descarte's rule of signs
AUGUST	I	Solution of Cubic equations (Cardon Method) Biquadratic Equations(Ferrari Method)
	II	Symmetric, Skew symmetric. Hermitianand skew Hermitian matrices
SEPTEMBER	II	Linear Independence of row and column matrices. Row rank, Column rank, Rank of a matrix by Echelon form, the characteristic equation of a matrix and eigenvectors. Cayley Hamilton theorem and its use in finding inverse of a matrix. Applications of matrices to a system of linear (both homogenous and non-homogenous) equations. Theorems of consistency of a system of linear equations.
OCTOBER	III	Definitions and examples of groups, general properties of groups subgroups
NOVEMBER	III	Cyclicgroups, Cosets, decomposition, Lagranges theorem and its consequences, Fermats and Eular's theorems.
DECEMBER	IV	Homomorphism and isomorphism of groups, Normal subgroups, quotient groups.
JANUARY	IV	The fundamental theorem of homomorphism. Kernel of homomorphism and its properties.
	V	Permutations groups, even, odd and cyclic permutations, transformation alternating group-An
FEBRUARY	V	Conjugacy and simple groups. Cayles theorem. Order of an element and its properties.
MARCH	I-V	REVISION & TESTS
APRIL	ANNUAL EXAMINATION	
MAY	SUMMER VACATION	
JUNE	SUMMER VACATION	

LOHIA COLLEGE, CHURU

DEPARTMENT OF HISTORY

TEACHING PLAN - SESSION - 2020-21

TEACHER - DR. S. D. SONI

CLASS - BA PART 2

PAPER - I - History of Medieval India (1206-1740 AD)

MONTH	UNIT	TOPIC
JULY - 2020	I	Introduction. 1. Main Sources of Medieval Indian History. 2. Establishment of Turkish rule in India - Qutbuddin Aibak, Iltutn Razia and Balban
AUG - 2020	I	1. Khalji imperialism - Expansion in Rajputana and Deccan. 2. Khaljis - Administrative and economic regulations and their impact the state and people.
SEP - 2020	II	1. Innovations under Muhammad Tughlaq. 2. Religious policy and public works of Firqz Tughlaq, Timur's invasion 3. Sikandar Lodi. 4. Formation of Vijaynagar Empire and Bahamani Kingdom and causes of their decline. 5. Social and Economic condition and administrative system during Sultanate Period.
OCT - 2020	III	1. Political Condition of India on the eve of Babur's invasion, his role the establishment of the Mughal Empire. 2. Humayun - Early difficulties and causes of his failure.
NOV - 2020	III	1. Shershah - Expansion of his empire and administration. 2. Political unification, Expansion and consolidation of the Mughal Empire under Akbar.
DEC - 2020	IV	1. Jahangir, Nurjahan's role in the Mughal Court. 2. Shahjahan's achievements. 3. Aurangzeb's Policy towards Rajputs and Deccan.
JAN - 2021	IV	1. Religious policy of the Mughal Emperors. 2. Shivaji - His conquests and Administration. 3. Causes of downfall of the Mughal Empire.
FEB - 2021	V	1. Nature of Mughal State; Agrarian system. 2. Mansabdari system. 3. Foreign Trade and Commerce. 4. Social classes - Ulema, nobility, zamindars, peasantry, artisans, agricultural labourer and slaves; status of women.
MAR - 2021	V	Revision

श्रीमती संतोष बलाई
सह. आचार्य - हिन्दी

राजकीय लोहिया महाविद्यालय चूरू सत्र - 2020 - 21

विषय - हिन्दी

शिक्षण - कार्य - योजना

क्रम सं०	कक्षा	जुलाई	अगस्त	सितम्बर	अक्टूबर	नवम्बर	दिसम्बर	जनवरी	फरवरी
1.	बी० ए० भाग - I	बीसलदेव ढोला-मारू विद्यापति	खुसरो कबीर जायसी आदिकाल	तुलसी सूर, मीरा काव्य-भाग	रहीम रसखान रहीम,जोबा(?) भक्ति-काल	कहानी का उद्भव व विकास एवं तत्व	कहानी संग्रह व्याख्याएं	उपन्यास के तत्व और विकास	फूल पौधों पर व्याख्याएं एवं प्रश्नोत्तर
2.	बी० ए० भाग - II	केशव बिहारी देव	पद्माकर सेनापति भूषण	घनानंद गिरिधर रज्जब	रीतिकाल काव्य-शास्त्र	नाटक का उद्भव व विकास एवं नाटक के तत्व	हस्तिनापुर की व्याख्याएं अंधेरी नगरी व्याख्याएं	एकांकी के तत्व व विकास नाटकों के प्रश्नोत्तर	एकांकी की व्याख्याएं व प्रश्नोत्तर
3.	एम० ए० पूर्वार्द्ध IV प्रश्नपत्र मध्यकालीन काव्य	विनय-पत्रिका व्याख्याएं प्रश्नोत्तर	विनय-पत्रिका व्याख्याएं प्रश्नोत्तर	सूर-सौरभ -50 छंद व्याख्या प्रश्नोत्तर	मीरा-पदावली -50 छंद व्याख्या प्रश्नोत्तर	बिहारी रत्नाकर व्याख्या प्रश्नोत्तर	बिहारी रत्नाकर व्याख्या प्रश्नोत्तर	घनानंद कवित्त व्याख्या प्रश्नोत्तर	घनानंद कवित्त व्याख्या प्रश्नोत्तर
4.	एम० ए० उत्तरार्द्ध I प्रश्नपत्र गद्य-साहित्य	गोदान उपन्यास का उद्भव व विकास शीर्षक की सार्थकता	गोदान की व्याख्या प्रश्नोत्तर	स्कंदगुप्त नाटक का उद्भव व विकास व्याख्या	कथान्तर व्याख्या प्रश्नोत्तर ~~क ध~~	कथान्तर व्याख्या एवं प्रश्नोत्तर	अतीत के चलचित्र व्याख्या प्रश्नोत्तर	अतीत के चलचित्र व्याख्या प्रश्नोत्तर	संस्मरण एवं रेखा-चित्र का उद्भव व विकास

Govt Lohia College, Churu

Department of Botany

Detailed teaching plan

Session- 2021-22

Class- BSc-II Bio

Paper- III (Cytogenetics, Plant Breeding, Evolution and Biostatistics)

Name of Teacher – Ashish Sharma

Month	Topic to be taught
August 2021	Concept of Cell and cell Theory. Structure, composition and function of Cell Wall Structure, composition of cell membrane
September 2021	Function of cell membrane. Types, structure and functions of cell organelles. Cell divisions.
October 2021	Mendel's laws of inheritance. Monohybrid and dihybrid ratio. Incomplete dominance, lethal gene. Gene interaction- Epistasis. Complementary Supplementary, Duplicate Physical and chemical structure of chromosome, types of chromosomes lampbrush and supernumerary.
November 2021	Chromosomal mutations. Structure and functions of nucleic acids. Types of RNA and DNA.
December 2021	Replication of DNA. Evidences of DNA as genetic material. Synaptonematal complex, crossing over, chiasma, linkage and mapping of genes.
January 2022	Principles of Plant breeding. Methods of breeding: Introduction and acclimatization, selection (mass, pureline and clonal), hybridization, pedigree analysis, hybrid vigour, use of mutation and polyploidy in breeding
February 2022	Elementay study of biostatistics mean, mode, median, standard error, chi-spuare test, standard deviation.
March 2022	Lamarckism and neo-Lamarckism. Darwinism and neo-Darwinism. De Vries concept, origin of species Previous years question papers discussion