MGM HIGHER SECONDARY SCHOOL, B. S. CITY
SYLLABUS BREAK UP--- 2022-23
CLASS– XII
SUBJECT –English

MONTH	WEEK	CHAPTER/TOPIC
MARCH	3RD	The last lesson,
	4TH	The Lost Spring (Contd.), My mother at sixty six
APRIL	1ST	Deep water, Report writing
	2ND	The Lost Spring
	3RD	The Lost Spring
	4TH	Drafting Invitation, Report writing
	5TH	Drafting Invitation(Contd.)
MAY	1ST	Note Making, Summary, Letter
	2ND	The Third Level
JUNE	3RD	The Tiger King
	4TH	Journey to The End Of The Earth
	5TH	Notice
JULY	1ST	Indigo
	2ND	The Enemy
	3RD	The Enemy(Contd.)
	4TH	1ST PERIODIC TEST Notice
	5TH	Invitation
AUGUST	1ST	Poets and Pancakes
	2ND	Article
	3RD	Keeping Quiet
	4TH	A Thing of beauty
	5TH	A Thing of beauty(Contd.)
SEPTEMBER	1ST	A Roadside stand
	2ND	A Roadside stand (Contd.)
	3RD	Revision for H.Y
	4TH	HALF-YEARLY EXAMINATION
	5TH	HALF-YEARLY EXAMINATION
OCTOBER	2ND	The Interview
	3RD	The Interview (Contd.)
	4TH	Going Places
NOVEMBER	1ST	Going Places (Contd.)
	2ND	On the face of it
	3RD	On the face of it
	4TH	On the face of it
	5TH	Aunt Jennifer's Tigers
DECEMBER	1ST	Memories of Childhood
	2ND	Revision SYLLABUS COMPLETION

(P.T.O)

MARCH	PROSE : 1. THELASTLESSON POETRY : MY MOTHERAT66 WRITING SECTION : REPORT WRITING
APRIL	FLAMINGO:-PROSE- 2 - THE LOST SPRING 3 - DEEPWATER 4 - RATTRAP POETRY - 1 - MY MOTHER AT 66 WRITING SECTION – DRAFTING INVITATION
MAY	VISTAS - 1 - THETHIRD LEVEL FLAMINGO – 4. RATTRAP READING SECTION – NOTE MAKING, SUMMARY WRITING SECTION - LETTER WRITING
JUNE	VISTAS-2-THETIGERKING 3 - JOURNEY TO THE END OF THE EARTH WRITING-SECTION-PRACTICE SESSIONS
JULY	FLAMINGO - CH - 5 – INDIGO VISTAS CH- 4 – THE ENEMY WRITING-SECTION-ARTICLE
AUGUST	FLAMINGO - CH6 – POETS AND PANCAKES POEM – 3 - KEEPING QUITE POEM – 4 - A THING OF BEAUTY WRITING SECTION – LETTER WRITING
SEPTEMBER	FLAMINGO – POEM - 5-AROADSIDESTAND PROSE - THE INTERVIEW
OCTOBER	FLAMINGO- CH- 8GOING-PLACES CH- 8- MEMORIESOFCHILD HOODVISTAS- ONTHEFACEOFIT
NOVEMBER	POEM - AUNT JENNIFERS TIGERS
DECEMBER	REVISION

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PORTION OF EXAM— 2022-2023

CLASS – 12 – ENGLISH

1STPERIODIC
FLAMINGO – PROSE - CH- 1) THE LAST LESSON
2) LOST SPRING

POETRY- 1) MY MOTHER AT SIXTY SIX

WRITING SECTION – INVITATION

READING SECTION –
COMPREHENSION

VISTAS - CH 1: THE THIRD LEVEL

HALF YEARLY
FLAMINGO-(CH-1,2,3,4FROMTHE LAST LESSON ------- THE RATTRAP)
(POETRY-1, 3, 4 FROM MY MOTHER AT SIXTY SIX --- A THING OF BEAUTY)

VISTAS -(-CH-1,2,3,4FROMTHE THIRD LEVEL------ THE ENEMY)

WRITING-SECTION- NOTICE, LETTER, SPEECH, ARTICLE, REPORT ETC.

READING SECTION- COMPREHENSION

REVISIONTEST-1

FLAMINGO-PROSE-CH 5, 6, 7, 8
POEM - 4, 5, 6
VISTAS-CH- 5, 6, 8

REVISIONTEST-2

FLAMINGO-PROSE-CH-1, 2, 3, 4
POEM - 1, 3
VISTAS - CH-1, 2, 3

PRE-BOARD : ENTIRE SYLLABUS

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR : 2022 - 2023
CLASS – XII
SUBJECT – PHYSICS

Month	Week	Chapter No.	Chapter/Topic name
March	4th	1	Unit-1 Electrostatics- Electric charges, Conservation of charge, Coulombs law, force between 2 point charges, force between multiple charges, superposition principle and continuous charge distribution.
	5th		Electric field, electric field due to a point charge, Electric field lines , electric dipole, electric field due to dipole, torque on a dipole in uniform electric field
April	1st		Electric flux, statement of Gauss' theorem and its application to find electric field due to infinitely long st. line ,uniformly charged infinite plane sheet and uniformly charged thin spherical shell, field inside and outside.
	1st & 2nd	2	Electrostatic potential and capacitance Electric potential, potential difference, electric potential due to a point charge, dipole and system of charges, equipotential surface, electric potential energy of system of two point charges and electric dipole in electrostatic field.
	3rd	2	Conductors and insulators, free charges and bound charges in a conductor. Dielectrics and electric polarisation, capacitors and capacitances , combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with or without dielectric medium between the plates ,energy stored in a capacitor(formula only) Practical1:To Find resistivities of two or more wires by plotting a graph of potential differences vs current
	4th	3	UNIT-2 Current electricity Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current , Ohms law, electric resistance V-I characteristics (linear and non linear) Electrical energy and power ,electric resistivity and conductivity, temperature dependence of resistance Practical 1
May	1st	3	Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel. Practical 2:metre bridge specific resistance Activities A1,A2
	2nd	3	Kirchhoff's laws and Wheat stone bridge .

June	2nd	4	UNIT-3 Magnetic effects of current and magnetism. concept of magnetic field, Oersted's experiments. Biot-Savart law and its application to current carrying circular loop Practical 3:To verify combination of resistors (series /parallel) using metre bridge
	3rd	4	Amperes law and its application to infinitely long straight line, straight and toroidal solenoids Force on a moving charge in uniform magnetic and electric fields Practical 3
	4th	4	Force on a current carrying conductor in a uniform magnetic field, force between two parallel current carrying conductors-definition of one ampere. Torque experienced by a current loop in uniform magnetic field , Current loop as a magnetic dipole and its magnetic dipole moment, moving coil galvanometer its current sensitivity and conversion to ammeter and voltmeter Practical 4:To determine angle of minimum deviation in case of a prism by plotting a graph between i and d Activity A3
	5th	5	Magnetism and matter Bar magnet, bar magnet as an equivalent solenoid, magnetic field intensity due to a magnetic dipole along its axis and perpendicular to its axis Practical 4
July	I st	5	torque on a magnetic dipole placed in uniform magnetic field. revision Practical 5: determine focal length of concave mirror
	2nd	5	Para, dia and ferromagnetic substances with examples, magnetisation of materials, effect of temperature on magnetic properties.
	3rd	6	UNIT IV Electromagnetic induction and alternating currents. Electromagnetic induction , Faradays laws , induced emf and current. Practical 5
	3rd	6	Lenz law, Self and mutual induction. Practical 6:To determine focal length of convex lens by plotting a graph between u and v or between 1/u and 1/v
	4th	7	Alternating current Alternating currents, peak and RMS value of alternating current voltage. Practical 6
	5th	7	Resistance and impedance , LCR circuits in series. Resonance, Power in ac circuits, power factors, wattless current Practical 7:To determine focal length of convex mirror using convex lens Activities B1,B2

August	I st	7 and 8	A.C generators and transformers UNIT V Electromagnetic waves Basic idea of displacement current, electromagnetic wavesS, their characteristics, their transverse nature, electromagnetic spectrum including elementary facts about their uses. Practical 7
	2nd	9	UNIT VI OPTICS Ray optics and optical instruments Reflection of light, spherical mirrors ,mirror formula, refraction of light, total internal reflection and its applications, optical fibre, refraction at spherical surfaces.
	3rd	9	Lenses , lens formula, lens makers formula, magnification , power of a lens, combination of thin lenses in contact,
	4th	9	Refraction of light through the prism Optical instruments: microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers. Half yearly practical examination
	5th	10	Wave optics Wave front and Huygens principle. Reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens principle. Half yearly practical examination.
September	I st	10	Interference .Young's double slit experiment and expression for fringe width (No derivation final expression only) coherent sources and sustained interference of light Diffraction due to single slit , width of central maxima
	2nd		Revision
	3rd		Half yearly examination
	4th		Half yearly examination
October	I st + 2nd	Unit VII Chapter 11	UNIT VII :Dual nature of radiation and matter Dual nature of radiation, photoelectric effect, Hertz and Lenard's observations, Einstein's photoelectric equation-particle nature of light. Experimental study of photoelectric effect. Matter waves -wave nature of particle, de -Broglie relation
	3rd	12	UNIT –V Atoms Alpha particle scattering experiment , Rutherford Model of atom, Bohr's model of hydrogen atom, expression for radius of nth possible orbit, velocity and energy of electron in its orbit hydrogen line spectra Practical8:To study characteristics of p.n. junction diode in forward and reverse bias Activity B3
November	1st	13	Nucleus Composition and size of nucleus ,nuclear force Practical 8
	2nd	13	Mass-energy relation ,mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion

	3rd&4th	14	UNIT –IX – Electronic devices Energy bands in conductor insulator and semi-conductors, intrinsic and extrinsic semi-conductor p and n types, pn junction. Semi conductor diodes ,I V characteristics in forward and reverse bias, application of junction diode as a rectifier
December	1st	9	Revision

PORTION OF EXAM WITH MARK WEIGHTAGE FOR THE YEAR 2022-23

CLASS -XII

EXAM	NAME OF THE UNIT/CHAPTER	MARK WEIGHTAGE
1ST PERIODIC	Electrostatics	10
	Current electricity	07
	Magnetic effect of current upto moving coil galvanometer	08
HALFYEARLY	Electrostatics	20
	Current electricity	14
	Magnetic effect of electric current and magnetism	18
	EMI and a.c.	18
2nd PERIODIC TEST	EM waves	04
	Optics	14
	Dual nature of matter and radiation	07
PRE BOARD	Electrostatics	10
	Current electricity	6
	Magnetic effect of current	9
	EMI and a.c.	8
	Electromagnetic waves	03
	Optics	15
	Dual nature of matter and radiation	05
	Atoms and nuclei	07
	Electronic devices	07

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
PORTION FOR THE YEAR: 2022-2023
CLASS– XII
SUBJECT–CHEMISTRY

Periodic Test

1. Solutions
2. Electrochemistry

Portion for Half Yearly Examination:-

1. Solution
2. Electrochemistry
3. Chemical Kinetics
4. Haloalkanes and Haloarenes

Pre-board / Board Examination

As per CBSE Board

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR : 2022 - 2023
CLASS – XII
SUBJECT – BIOLOGY

MONTH	WEEK	CHAPTER NO.	TOPIC NAME
March	3rd	Chapter 1	Reproduction in living organisms
	4th	Chapter 2	Reproduction in flowering plants
April	1st	Chapter 2	Reproduction in flowering plants
	2nd	Chapter 2	Reproduction in flowering plants
	3rd	Chapter 2	Reproduction in flowering plants
	4th	Chapter 3	Human Reproduction
	5th	Chapter 3	Human Reproduction
May	1st	Chapter 3	Human Reproduction
	2nd	Chapter 4	Reproductive Health
June	4th	Chapter 4	Principles of heredity & Variation
	5th	Chapter 5	
July	1st	Chapter 5	
	2nd	Chapter 5	
	3rd	Chapter 6	Molecular basis of inheritance
	4th	Chapter 6	Molecular basis of inheritance
	5th	Chapter 6	Molecular basis of inheritance
August	1st	Chapter 6	Molecular basis of inheritance
	2nd	Chapter 6	Evolution
	3rd	Chapter 8	Human health and deceases
	4th	Chapter 8	Human health and deceases
September			Revision and HALF YEARLY EXAMINATION
			HALF YEARLY EXAMINATION
October	1st	Chapter 10	Microbes in human welfare
	3rd	Chapter 11	Biotechnology: Principles and processes and Applications
	4th	Chapter 11	Biotechnology: Principles and processes and Applications
November	1st	Chapter 12	Biotechnology: Application
	2nd	Chapter 12	Biotechnology: Application
	3rd	Chapter 13	Organism and population
	4th	Chapter 13	Organism and population
December	1st	Chapter 14	Ecosystem
	2nd	Chapter 15	Biodiversity & Conservation

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR : 2021 - 2022
CLASS – XII

SUBJECT – Computer Science-083

Month	*Week*	*Unit no.*	*Chapter/topic*
MARCH	3RD	1	**PYTHON REVISION TOUR-I** ▪ Tokens ▪ Barebones of a Python Program ▪ Variables and Assignments ▪ Simple Input and Output ▪ Data Types
	4TH	1	**PYTHON REVISION TOUR-I** ▪ Mutable and Immutable types ▪ Statement flow control ▪ The if Condition ▪ Looping Statements
APRIL	1ST	1	**PYTHON REVISION TOUR-I** ▪ Jump Statements-break and continue ▪ More on Loops
	2ND	1	**PYTHON REVISION TOUR-II** ▪ Strings in Python
	3RD	1	**PYTHON REVISION TOUR-II** ▪ Lists in Python ▪ Tuples in Python
	4TH	1	**PYTHON REVISION TOUR-II** ▪ Dictionaries in Python
	5TH	1	**PYTHON REVISION TOUR-II** ▪ Sorting Techniques
MAY	1ST	1	**WORKING WITH FUNCTION** ▪ Understanding Functions ▪ Defining Function in Python ▪ Flow of Execution in a Function call ▪ Passing Parameters ▪ Returning values from Function
	2ND	1	**WORKING WITH FUNCTION** ▪ Composition ▪ Scope of Variables
JUNE	3RD	1	**WORKING WITH FUNCTION** ▪ Mutable /Immutable properties of passed data objects
	4TH	1	**FILE HANDLING** ▪ Need of Data files ▪ Opening and closing files ▪ Types of Files

	5TH	1	**FILE HANDLING** ▪ Working with Text File
JULY	1ST	1	**FILE HANDLING** ▪ Working with Text File (contd.)
	2ND	1	**FILE HANDLING** ▪ Standard input, output and error streams ▪ Working with Binary File
	3RD	1	**FILE HANDLING** ▪ Working with CSV File
	4TH	1	***1st periodic test***
			DATA STRUCTURE ▪ Elementary Data Representation ▪ Types of Data Structure ▪ Operations on Data Structure
	5TH	1	**DATA STRUCTURE** ▪ Nested/ Two dimensional lists in Python
AUGUST	1ST	1	**DATA STRUCTURE** ▪ Stacks
	2ND	2	**COMMUNICATION AND NETWORK CONCEPTS** ▪ Computer network-An introduction ▪ Types of networks ▪ Evolution of Networking
	3RD	2	**COMMUNICATION AND NETWORK CONCEPTS** ▪ Switching Techniques ▪ Data Communication Terminologies
	4TH	2	**COMMUNICATION AND NETWORK CONCEPTS** ▪ Transmission Media ▪ Network Devices ▪ Network Topologies and Types
	5TH	2	**COMMUNICATION AND NETWORK CONCEPTS** ▪ Network Protocol ▪ Wireless / Mobile Computing ▪ Internetworking terms and concepts
SEPTEMBER	1ST	2	**COMMUNICATION AND NETWORK CONCEPTS** ▪ Introduction to web services
	2ND	Revision for Half-yearly examination	
	3RD	Revision for Half-yearly examination	
	4TH	***Half-yearly examination***	
	5TH		
OCTOBER	2ND	3	**RELATIONAL DATABASES** ▪ Purpose of DBMS ▪ Database Concepts ▪ Relational Data Model ▪ The relational model terminology ▪ Brief history of MYSQL
	3RD	3	**RELATIONAL DATABASES** ▪ MySQL database system ▪ Starting MySQL ▪ MySQL and SQL

	4TH	3	**SIMPLE QUERIES IN SQL** ▪ General Concepts: Advantages of using SQL ▪ Some MySQL SQL elements ▪ SQL command syntax
NOVEMBER	1ST	3	**SIMPLE QUERIES IN SQL** ▪ Making simple queries ▪ MySQL functions ▪ Aggregate functions
	2ND	3	**TABLE CREATION AND DATA MANIPULATION COMMANDS** ▪ Database in MySQL ▪ Creating tables ▪ Changing Data with DML commands ▪ More DDL commands
	3RD	3	**GROUPING RECORDS, JOINS IN SQL** ▪ Types of SQL function ▪ Grouping result- GROUP BY ▪ Joins
	4TH	3	**INTERFACE PYTHON WITH MYSQL** ▪ Connecting SQL with Python ▪ Creating Database Connectivity Applications
	5TH	3	**INTERFACE PYTHON WITH MYSQL** ▪ Parameterized quires ▪ Performing Insert and Update queries
DECEMBER	1ST	**REVISION**	
	2ND	**REVISION** **SYLLABUS COMPLETION**	

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PORTION OF EXAM WITH MARKS WEIGHTAGE

EXAM	CHAPTER NO.	CHAPTER NAME	MARKS WEIGHTAGE
1ST PERIODIC TEST	**CHAPTER -1**	Python Revision Tour-I	15
	CHAPTER -2	Python Revision Tour-II	15
	CHAPTER -3	Working With Function	20
		TOTAL	**50**
HALF-YEARLY EXAMINATION	**CHAPTER -1**	Python Revision Tour-I	10
	CHAPTER -2	Python Revision Tour-II	10
	CHAPTER -3	Working With Function	10
	CHAPTER-4	File Handling	15
	CHAPTER-5	Data structure	5
	CHAPTER-6	Communication and network concepts	20
		TOTAL	70
PRE-BOARD EXAMINATION	**UNIT-1**	Computational Thinking and Programming - 2	40
	UNIT-2	Computer Networks	10
	UNIT-3	Database Management	20
		TOTAL	70

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MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK-UP YEAR 2022-2023
CLASS – XII
SUBJECT – ECONOMICS

MONTH	WEEK	CHAPTER NO.	TOPIC/TOPIC NAME
MARCH	4th& 5th	MACRO. Ch.-5	Unit 5: Money and Banking Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks
		ECONOMIC DEV. Ch.-1	Unit 1: Development Experience (1947-90) and Economic Reforms since 1991: A brief introduction of the state of Indian economy on the eve of independence.
APRIL	1st-2nd	MACRO. Ch.-5	Money creation by the commercial banking system. Implementation of Jan Dhan Yojna by government Concept of Multiplier=1/CRR
		ECONOMIC DEV. Ch.-1	Indian economy on the eve of independence- Agricultural sector, Industrial sector. Indian economy on the eve of independence- Foreign Trade, Demographic profile during British rule.
	3rd	MACRO. Ch.-5	Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.
		ECONOMIC DEV. Ch.-1	Indian economy on the eve of independence- Occupational Structure, Infrastructure.
	4th	MACRO. Ch.-9	Unit 7: Government Budget and the Economy Government budget - meaning, objectives. Balanced Budget & Unbalanced Budget
		ECONOMIC DEV. Ch.-2	Common goals of Five Year Plans: Long period and Short period goals.
	5th	MACRO. Ch.-9	Classification of receipts - revenue receipts and capital receipts; Classification of expenditure – revenue expenditure and capital expenditure. Measures of government deficit - revenue deficit, fiscal deficit, primary deficit their meaning.
		ECONOMIC DEV. Ch.-2	Common goals of Five Year Plans: Achievement of the Goals of planning, Failures of planning.
		ECONOMIC DEV. Ch.-3	Main features, problems of Agriculture.

MAY	1st-2nd	MACRO. Ch.-9 ECONOMIC DEV. Ch.-3	Implications of each type of deficit in government deficit. Policies of agriculture (institutional aspects and new agricultural strategy, etc.)
JUNE	3rd-4th	MACRO. Ch.- 10 ECONOMIC DEV. Ch.-5	**Foreign exchange rate** - meaning of fixed and flexible rates and managed floating, Determination of exchange rate in a free market, Appreciation and Depreciation of Domestic Currency Economic Reforms since 1991: Need and main features of liberalisation, globalization.
	5th	MACRO. Ch.-10 ECONOMIC DEV. Ch.-5&6	**Foreign exchange rate-** Appreciation and Depreciation of Domestic Currency Need and main features of Privatization; An appraisal of LPG policies.
JULY	1st	MACRO. Ch.-11 ECONOMIC DEV. Ch.-7	Balance of payments account - meaning and components: • Current A/C (Visible trade) • Capital A/c (Invisible trade) • Official Reserves A/c (maintained by RBI) Economic Reforms since 1991: GST & DEMONITISATION
	2nd	MACRO. Ch.-11 ECONOMIC DEV. Ch.-7	Balance of payments equilibrium & disequilibrium (Bop Surplus & Deficit) Economic Reforms since 1991: Impact of GST & DEMONITISATION on Indian Economy
	3rd	MACRO. Ch.-11 ECONOMIC DEV. Ch.-8	Significance of Bop Data: 1.Finding of Exports and Imports 2. Calculation of NFIA 3. Indicator of country's exchange rate Human Capital Formation**:** How people become resource; Role of human capital in Economic development.
	4th	MACRO. Ch.-11 ECONOMIC DEV. Ch.-8	Significance of Balance of Payment continued.. Human Capital Formation: Growth of Education Sector in India.
	5th	MACRO. Ch.-11 ECONOMIC DEV. Ch.-9	Autonomous and Accomodating items of BOP(Showing Currency market by Internet) Rural development: Key issues - credit and marketing - role of cooperatives

AUGUST	1st-2nd	MACRO. Ch.-11 ECONOMIC DEV. Ch.-9	Foreign Exchange Rate: Determination of Equilibrium exchange rate. Agricultural diversification; alternative farming. Organic farming.
	3rd	MACRO. Ch.-2 ECONOMIC DEV. Ch.-10	Unit 1-4: National Income and Related Aggregates Some basic concepts: consumption goods, capital goods, final goods, intermediate goods. Stocks and flows; gross investment and depreciation. Circular flow of income (two sector model) Employment: Formal and informal, Growth and other issues: Problems and policies.
	4th -5th	MACRO. Ch.-3 ECONOMIC DEV. Ch.-11	Aggregates related to National Income: Gross National Product (GNP), Net National Product (NNP) and other related terms. Gross and Net Domestic Product (GDP and NDP) - at market price, at factor cost. Concept of Domestic Income and National Income .Inflation: Problems
SEPTEMBER	1st -2nd	MACRO CH-4 ECONOMIC DEV. Ch.-11	Methods of calculating National Income-Value Added Method &Income method Inflation: Types & Implications
	3rd		REVISION FOR HALF YEARLY EXAMINATION
	5th	MACRO Ch-4 ECONOMIC DEV. Ch.-11	Methods of Calculating National Income Inflation: Policies
OCTOBER	1st	MACRO. Ch.-4 ECONOMIC DEV. Ch.-12	Methods of calculating National Income-Expenditure method. Inflation: Ways to tackle Inflation
	2nd -3rd	MACRO. Ch.-4 ECONOMIC DEV. Ch.-12	Precautions Under National Income calculation under Value, Income & Expenditure method. Real and Nominal GDP(GDP deflator) Sustainable Economic Development**:** Meaning, Features
	4th	MACRO. Ch.-4 ECONOMIC DEV. Ch.-13	**National Income:** Classification of Economy- 2 sector,3 sector & 4 sector economy Concept of Depreciation- Expected & Unexpected Obsolescence Sustainable Economic Development**:** Effects of Economic Development on Resources and Environment, including global warming.
	5th	MACRO.	**AD & its Components**

		Ch.-7 ECONOMIC DEV. Ch.-14	AD schedule, Concept of Autonomous Consumption, C and S function graphs and their numericals Unit 3: Development Experience of India: A comparison with neighbours India and Pakistan; India and China
NOVEMBER	1st-2nd	MACRO. Ch.-8 ECONOMIC DEV. Ch.-14	Meaning of full employment and involuntary unemployment. Process of Multiplier(Graphic presentation) Issues: growth, population, sectoral development and other developmental indicators.
	3rd	MACRO. Ch.-8 ECONOMIC DEV. Ch.-14	AS-AD and S=I approach for income determination Issues: growth, population, sectoral development and other developmental indicators.
	4th-5th	MACRO Ch-8 ECONOMIC DEV. Ch.-14	Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply Tabular presentation of comprision between India,Pakistan & China. **COMPLETION OF SYLLABUS**

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAK UP FOR THE YEAR: 2022-2023
CLASS– XII
SUBJECT–CHEMISTRY

MONTH	CHAPTER No.	CHAPTER/TOPICNAME
MARCH	1	Solutions-introduction, types, concentration sand its Methods to express
APRIL	1	Solutions-introduction, types, concentration sand its Methods to express
		Henry's law, application, ideal & non – ideal solutions, Raoult's Law.
		Colligative Properties, Graphical methods, Van't Hoff Factor etc.
	2	Electrochemistry - Introduction, Electrochemical Cells, Nemst Equation and its application, Kohlrausch law, Electrolysis
		Faraday's Laws of electrolysis, applications, conductivity and its types, applications.
		Cells and Batteries, Primary & Secondary Electrochemical theory of Rusting of Iron.
MAY	3	Chemical Kinetics – Introduction, Rate Law, Law of mass action order and Molecularity of reaction.
JUNE	3	Pseudo First order reactions, Activation Energy, Threshold Energy, Arrhenius Equation, Mechanism of reactions.
JULY	4	Haloalkanes & Haloasenes - physical and chemical properties, mechanism of substitution reaction, nomenclature, methods of preparation.
	5	Alcohols, Phenols & Ethers – nomenclature, Physical and Chemical properties, methods of preparation, identification of primary, secondary and tertiary alcohols.
August	6	Aldehydes, Ketones and Carboxy licacids, all name reactions, tests For aldehydes and Ketones, Iodo form test, nomenclature, preparation, Nucleophilic addition
September	7	Amines and diazonium slats -Introduction, methods of preparations, properties and uses, nomenclature,
October	8	d and f block elements – introduction, general properties of first row transition metals, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$.
November	9	Co-ordination compounds – Introduction, ligands, nomenclature, bonding, VBT and CFT, applications.
December	10	Biomolecules – classification – monosaccharides, proteins, amino acids, nucleic acids – DNA and RNA

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	7	Electrochemistry-Introduction, Electro chemical cells, Nernst Equation and its application, Kohlrausch law, Electrolysis
		Faraday's Laws of electrolysis, applications, conductivity and its types, applications
AUGUST	7	Cells and Batteries, Primary & Secondary, Electro chemical theory of Rusting of Iron
	8	Chemical Kinetics, Introduction, Rate Law, Law of mass action Order and Molecularity of reaction
		Pseudo First order reactions, Activation Energy, Threshold Energy, Arrhenius Equation, Mechanism of reactions.
	9	Surface chemistry- Introduction, Adsorption, Absorption, Physisorption, chemisorption, Applications
		Catalysis, types, Homogeneous and Heterogeneous Catalysis, Mechanism, Applications

	10	D and f block elements – introduction, general properties of first row transition metals
		Lanthanoids and actinoids

SEPTEMBER	11	Co-ordination compounds – Introduction, ligands, nomenclature, bonding, VBT and CFT
		Isomerism, Werner's theory
OCTOBER	12	Aldehydes, Ketones and Carboxy licacids, allname reactions, tests For aldehydes and Ketones, Iodo form test, nomenclature, preparation, Nucleophilic addition
	13	Aminesanddiazoniumslats-Introduction,methodsofpreparations,properties and uses, nomenclature,
NOVEMBER	13	Identification of primary, secondary and tertiary amines, Conversions, Practice questions

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR : 2021 - 2022
CLASS – XII
SUBJECT – PHYSICAL EDUCATION

Month	CHAPTER NO.	UNIT	WEEK	TOPIC/TOPIC NAME
March	1	1	4th	Planning in sports.(meaning and objectives of planning ,
April				Various committees and its responsibilities.
			1st	Procedure to draw fixture (knockout and League tournament), intramural and extramural competition.
			2nd	Specific sportsprogrammes.
	2		3rd	Sports and Nutrition. (Balance diet, diet and nutrition : macro & micro nutrients, nutritive &non nutritive components of diet, Eating for weight control – A Healthy weight, The pitfalls of dieting, food intolerance and food myths.
			4th	Topic continued….. Sports nutrition and it's Effect on performance (Fluid and meal intake, pre, during and post completion. Food supplements for children's.
	3		5th	YOGA and LIFESTYLE :Asans as preventive measures ,Obesity : Asana, procedure, benefits and contraindication for forvajrasana, padahastasana, trikonasana., Diabetes.
May			1st	Hypertension and back pain, procedure ,benefits and contraindication.
	4		2nd	Topic continued…. .,PHYSICAL EDUCATION AND SPORTS FOR CWSN(CHILDREN WITHSpecial NEED-DIVYANG) : Concept of disability, their causes and nature (cognitive, intellectual & physical disability)
			3rd	Revision, Advantages of physical activities children's with special needs…, strategies to make physical accessible for children with special needs.
	5		4th	CHILDREN& WOMEN IN SPORTS : Motor development and factors affecting, Exercise guidelines at different stages of growth development.,
			5th	Advantage and disadvantages of weight training, concept and advantages of correct posture,
June			1st	Common posturaldeformities –spinal curvature, knock knees, bowleg, flat foot, round shoulder…, corrective measures for postural deformities.
			2nd	Sports participation of women in India, special consideration (menarche &menstrual dysfunction), Female athletes triad (oestoporosis, amenorrhoea, eating disorder).

July	6		3rd	1st periodic, TEST AND MEASUREMENT IN SPORTS:Introduction, Motor fitness test ,50m standing start 600 m Run/Walk,Sit& Reach test, Partial curl up, push ups (Boys), Modified push-up (Girls),standing Broad Jump, Agility -4x 10m Shuttle Run. General Motor fitness Test : Barrow three -item general motor ability (Standing Broad Jump, Zigzag Run, Medicine Ball Put)
		3	4th	Measurement of Cardiovascular Fitness : Harvard Step Test / Rockport Test-Computation of Fitness Index : Duration of the exercise in seconds x 100 5.5 x pulse count of 1-1.5 min after exercise,
			5th	Rikki & Jones – Senior Citizen Test : chair stand test for lower body strength, Arm curl test for upper body strength, chair sit & reach test for lower body flexibility, Back scratch test for upper body flexibility, Eight foot up & go test for agility, six minute walk test for aerobic endurance.
August	7		1st	PHYSIOLOGY & INJURIES IN SPORTS : Physiological factors determining components of physical fitness, Effects Of exercise on Cardio Respiratory system, Effects of exercise on Muscular system, Physiological changes due to ageing,
			2nd	Sports Injuries : classification (soft tissue injuries, Bone and joint injuries, their causes,prevention and treatment, First Aid – aim and objectives.
	8		3rd	Topiccontinued…., BIOMECHANICS & SPORTS :Meaning and Importance of Biomechanics in sports,
			4th	Types of movements (flexion, extension, abduction, adduction), Newton's Law of motion and
				And it's Application in sports, Friction & sports.
September			**1st**	**Topic Continued**
			2nd	Revision
			3rd	Half Yearly Exam
			4th	Half Yearly Exam
	9		5th	PSYCHOLOGY & SPORTS: Introduction, personality, its definition & types - Traits & Types (Sheldon &Jung classification) & Big Five Theory,
October				Motivation, its type and techniques, Exercise Adherence,Reason to Exercise , Benefits of Exercise
				Strategies for Enhancing Adherence to Exercise, Meaning, Concept & Types of Aggression in Sports.
	10		1st	TRAINING IN SPORTS : Introduction, Strength – Definition, types & methods to develop strength – Isometric ,Isotonic &Isokinetic,
			2nd	Endurance – Definition ,types & methods to develop endurance – continuous, interval & fartlek training,

			3rd	Speed and Flexibility – types and methods to develop
			4th	Topic continued….. …Coordination abilities : definition and types,
			5th	Topic continued….. Circuit training – introduction &it's Importance.
November			1st	Revision
				Revision **Note: Completion Of Syllabus(11th Nov)**
				Revision
				1st Revision Test

Portion specified for first quarterly examination(5th July) :

Chapter No.	**Name of the Chapter**
1,2&3. 2. Sports & Nutrition 3. Yoga & Lifestyle	1. Planning in sports

Portion specified for Half yearly examination(13th to 25th September) :

Chapter No.	**Name of the Chapter**
1 to 5 2. Sports & Nutrition 3. Yoga & Lifestyle	1. Planning in sports 4. Physical Education and sports for CWSN 5. Children and women in sports

Portion specified for 1stPre-Board examination (13th December):

Chapter No.	**Name of the Chapter**
1 to 10	Entire Syllabus

Portion specified for 2ndPre-Board examination (4th January):

Chapter No.	**Name of the Chapter**
1 to 10	Entire Syllabus

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR : 2022 - 2023
CLASS – XII
SUBJECT – APPLIED MATHEMATICS

MONTH	WEEK	UNIT NO.	CHAPTER/TOPIC
MARCH	3RD	1	**NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS** • Modulo Arithmatic • Allegation and Mixture
	4TH		• Boats and streams • Pipes andCistern • Races andgames
APRIL	1ST		• Numerical Inequalities
	2ND	2	**ALGEBRA** • Matrices • Operation of matrices
	3RD		• Determinant
	4TH		• Inverse of amatrix • Solving system of simultaneous equations using matrix method
	5TH		• Cramer's rule and row reduction method. • Simple applications of matrices and determinants
MAY	1ST		**CALCULUS** • Differentiation and its application (Higher order derivative)
	2ND	3	• Application of derivative (Rate of change, tangent and Normal)
JUNE	3RD		• Marginal cost and marginal revenue usingderivatives, • Increasing / Decreasing offunctions
	4TH		• Maxima andMinima
	5TH		• Integration And its application (Indefinite integration)
JULY	1ST		• Indefinite integration
	2ND		• Definite integral as area under thecurve
	3RD		• Application of Integration
	4TH		1ST PERIODIC TEST
			• Differential equation
	5TH		• Application of Differential equation
AUGUST	1ST	4	• ProbabilityDistribution • Mathematical Expectation • Variance
	2ND		• Binomial Distribution • PoissonDistribution
	3RD		• Normaldistribution
	4TH	5	**INFERENTIAL STATISTICS** • Population and Sample
	5TH		• Parameter and Statistic and Statisticalinferences
SEPTEMBER	1ST		**INFERENTIAL STATISTICS** • Hypothesis testing
	2ND		Revision for H.E
	3RD		Revision for H.E

	4TH		HALF-YEARLY EXAMINATION
	5TH		HALF-YEARLY EXAMINATION
OCTOBER	2ND	6	**INDEX NUMBERS AND TIME-BASED DATA**
	3RD		
	4TH		• Time series, component of Time series, Time series analysis for univariant dataSecular Trend
NOVEMBER	1ST	7	**FINANCIAL MATHEMATICS** • Perpetuity • Sinkingfunds
	2ND		• Calculation of EMI
	3RD		• Calculation of returns • Nominal rate of return • Compound annual growthrate
	4TH		• Linear method ofdepreciation
	5TH		
DECEMBER	1ST	8	**LINEAR PROGRAMMING** • Mathematical formulation of linear programmingproblems
	2ND		• Graphical method of solving L.P.P in twovariables. ***SYLLABUS COMPLETION***

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO

SYLLABUS BREAKUP FOR THE YEAR : 2022 - 2023

CLASS – XII

SUBJECT – MATHEMATICS (041)

MONTH	WEEK	UNIT NO.	CHAPTER/TOPIC
MARCH	3RD		**RELATION:** Types of relations: reflexive, symmetric, transitive.
	4TH		Equivalence relations, Types of relations, Equivalence classes.
APRIL	1ST		**FUNCTIONS** : Functions Types of functions, Composite functions,
	2ND		**INVERSE TRIGONOMETRIC FUNCTIONS:** Inverse of a Function, inverse trigonometric functions.
	3RD		**INVERSE TRIGONOMETRIC FUNCTIONS:** Definition, domain, range,
	4TH		Principal value branch of inverse trigonometric functions, Graphs of inverse trigonometric functions.
	5TH		**MATRICES:** Types of matrices, Operation on matrices, Addition and multiplication and multiplication with a scalar and Transpose of a matrix, symmetric and skew symmetric matrices .
MAY	1ST		**DETERMINANTS** : Determinant of a square matrix (up to 3x3 Matrices), minors, Co- factors. Applications of determinants in finding the area of a triangle.
	2ND		**MATRICES:** Adjoint and inverse of matrix, Solving a system of Linear Equations by Matrix Method
JUNE	3RD		**CONTINUITY AND DEPPERENTIABILITY**: Continuity of a point, continuous functions.
	4TH		**DEFFERENTIATION**: Chain rule, Derivatives of inverse trigonometric functions,
	5TH		Derivative of implicit function , Derivatives of logarithmic and exponential functions. Derivatives of function in parametric form, Second order
JULY	1ST		**APPLICATION OF DERIVATIVES** : Rate of change of bodies, increasing/decreasing functions,
	2ND		**APPLICATION OF DERIVATIVES** Increasing/decreasing functions
	3RD		**APPLICATION OF DERIVATIVES** : Maxima & Minima. Simple problems
	4TH		**1ST PERIODIC TEST**
			INDEFINITE INTEGRALS : Integration as inverse process of differentiation, Integration by substitution,
	5TH		Evaluation of integrals of some special functions
AUGUST	1ST		Integration by partial fraction and by parts.
	2ND		**DEFINITE INTEGRALS** : Basic properties of definite integrals and
	3RD		**APPLICATION OF INTEGRALS** : Application in finding the area under simple curves, especially lines, circle/parabola /ellipse(in standard form only)
	4TH		Area between any of the two above said curves.
	5TH		**DIFFERENTIAL EQUATIONS :** Definition, order and degree, general and particular solutions of homogeneous Solution of differential equations, Variable separable method.

SEPTEMBER	1ST		Solutions of homogeneous differential equations of first order and first degree.
	2ND		Solutions of linear differential equation of the type :
	3RD		Revision
	4TH		**HALF-YEARLY EXAMINATION**
	5TH		**VECTOR** : Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors).
OCTOBER	2ND		Position vector of a point, negative of a vector, components of a vector, Addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition,
	3RD		Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors, scalar triple product of vectors.
	4TH		**THREE DIMENSIONAL GEOMETRY :** Straight line in space (Cartesian equation and vector equation of a line, coplanar and skew lines)
NOVEMBER	1ST		**SHORTEST DISTANCE BETWEEN TWO LINES** Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines,
	2ND		Shortest distance between two lines. Cartesian and vector equation of a plane.
	3RD		Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.
	4TH		**LINEAR PROGRAMMING** : Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems,
	5TH		**2ND PERIODIC TEST**
			Mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, Feasible and infeasible regions (bounded or
DECEMBER	1ST		**PROBABILITY :** Conditional probability, Multiplication theorem of total probability, Baye's theorem, Random variable and its probability distribution, mean of random variable .
	2ND		**SYLLABUS COMPLETION**

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PORTION FOR PERIODIC TEST-1

Matrices, Determinants, Relations and Functions, Inverse Trigonometric functions

PORTION FOR HALF YEAR EXAM

Matrices, Determinants, Relations and Functions, Inverse Trigonometric functions. Continuity and Differentiability, Application of Derivative, Integrals (Indefinite and definite). Properties of Integrals.

PORTION FOR PRE-BOARD EXAM

Application of Integrals, Differential Equations, Vectors, Three-dimensional geometry, linear programming, Probability and whole portion of Midyear Exam.

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M.G.M HIGHER SECONDARY SCHOOL, BOKARO
SYLLABUS BREAKUP FOR THE YEAR: 2022 - 2023
Class – 12
Subject – Sociology

Month –	**Week –**	**Chapter No. / Chapter Name–**	**Topics –**
March	3rdand 4th	2) The Demographic Structure of Indian Society.	A)Theories and Concepts, Rural and Urban Linkage and Divisions , Population Policy in India.
April April	2ndand 3rd 4th and 5th	3)Social Institutions: Continuity and Change. 4)The Market as a Social Institution	B) Caste and Caste System, Tribal Communications, Final and Kinship. C) Sociological perspectives on Market and Economy,Understanding Capitalism as a Social System, Globalization.
May	2nd and 3rd	5) Patterns of Social Inequality and Exclusion	D) Social Inequality and Social Exclusion, Systems justifying and Perpetuating, Inequality and Struggles.
FIRST PERIODIC TEST			
June	3rd and 4th	6) The Challenges of Cultural Diversity and Project work	E) Cultural Communities and the nation State, Regionalism in the Indian Context, The Nation State and Religion related issues and Identities, Communalism, State and Civil Society.
July	1st and 2nd	8) Structural Change	F) Understanding Colonialism, Industrialization, Urbanization.
August	1stand 2nd	9) Cultural Change	G)Social Reform Movements, Different Kinds of social change.
August	3rdand 4th	10) The Story of Indian Democracy	H) The Constitution as an Instrument of Social Change, Challenges of Social Transformation, Political Parties, Pressure Groups and Democratic Politics.
HALF YEARLY EXAM			
September	1stand 2nd	11) Change and Development in Rural Society	I) Agrarian Structure, Land Reforms, Green Revolution and its Social Consequences, Circulation of Labour, Globalization, Liberalization and Rural Society
October	2nd	12) Change and Development in Industrial Society	J) Planned Industrialization to Liberalization, work Process.
			(P.T.O)

SECOND PERIODIC TEST			
October and November	3rd, 1st and 2nd	13) Globalization and Social Change	K) Understanding Globalization, Dimensions of Globalization , Economic, Political and Cultural.
November	3rd	14) Mass Media and Communication	L) Types, Changing Nature of Mass Media
December	1st and 2nd	15) Social Movements	M) Concept of Social Movements, Theories and Classification of social Movements, Class-Based Movements, Caste- Based, Tribal Movements and Women Movement in Independent India.
December		Completion Of Syllabus	

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