



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023

CLASS – X

SUBJECT – ARTIFICIAL INTELLIGENCE

	UNITS	NO. OF HOURS for Theory and Practical	MAX. MARKS for Theory and Practical
PART A	Employability Skills		
	Unit 1: Communication Skills-II*	10	-
	Unit 2: Self-Management Skills-II	10	3
	Unit 3: ICT Skills-II	10	3
	Unit 4: Entrepreneurial Skills-II	15	4
	Unit 5: Green Skills-II*	05	-
	Total	50	10
PART B	Subject Specific Skills		Marks
	Introduction to Artificial Intelligence (AI)		10
	AI Project Cycle		10
	Natural Language Processing		10
	Evaluation		10
	Total		40
PART C	Practical Work: <ul style="list-style-type: none"> • Advance Python • Data Science • Computer Vision 		
	Practical Examination		35
	Viva Voce		
	Total		35
PART D	Project Work / Field Visit / Practical File / Student Portfolio		15
	Viva Voce		
	Total		15
	GRAND TOTAL	200	100

Note: * marked units are to be assessed through Internal Assessment/ Student Activities.

They are not to be assessed in Theory Exams



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023

CLASS – X
SUBJECT – CHEMISTRY

MONTH	WEEK	CHAPTER NAME AND TOPICS
April	1 st and 2 nd	Ch 1 -Chemical Reactions and Equations Chemical reaction, characteristics of chemical reactions,implication of chemical equations ,Writing and balancing chemical equations.
	3 rd	Types of chemical reaction- 1)combination reaction 2)decomposition reaction
	4 th	3)Displacement reaction 4)Double displacement reaction 5)Precipitation reaction 6)Neutralisation reaction
	5 th	Oxidation and Reduction reaction, Exercise Questions
May	1 st and 2 nd	Ch -2 Acids ,Bases and Salts Basic concepts of acid and base, indicator, reaction of acid and base with metals
June	3 rd and 4 th	Reaction of acid with metal carbonates and metal bicarbonates, reaction between acid and base, reaction of metal oxides with acid
	5 th	Dilution of acid and base, pH, importance of pH in everyday life , Salts and types of salts
July	1 st and 2 nd	Preparation, Properties and Uses of – Sodium Chloride Preparation, Properties and Uses of NaOH, NaHCO₃ Practical- Finding the pH of the given samples by using pH paper/universal indicator:
	3 rd	Preparation, Properties and Uses of Na₂CO₃, bleaching powder, plaster of paris Exercise Questions
	4 th	Ch -3 Metals and Non-Metals Introduction, physical properties of metals and non metals Practical - Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with ; a) Litmus solution (Blue/Red)b) Zinc metalc) Solid sodium carbonate
	5 th	Chemical properties of metals and non metals

August	1 st	Properties of ionic compounds, electron dot representation Practical- Performing and observing few reactions and classifying them into: A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction
	2 nd and 3 rd	Occurrence of metals, extraction of metals, extraction of metals in low reactivity series, extraction of metal in middle reactivity series
	4 th and 5 th	Extraction of metals in high reactivity series, refining of impure metals Practical- Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: i) ZnSO ₄ (aq)ii) FeSO ₄ (aq)iii) CuSO ₄ (aq)iv) Al ₂ (SO ₄) ₃ (aq) Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.
September	1 st & 2 nd	Corrosion and Alloys, Exercise Questions
	3 rd	Ch-4 Carbon and its Compounds Introduction, covalent bonding in carbon compounds, allotropic forms of carbon, versatile nature of carbon
October	2 nd and 3 rd	Functional groups, homologous series, Revision for Half Yearly Exam
	4 th and 5 th	Nomenclature of Organic compounds,
November	1 st	Chemical Properties of carbon compounds (combustion, addition and substitution reaction)
	2 nd	Important carbon compounds- Ethanol (physical and chemical properties and its uses) Practical- Study of the following properties of acetic acid (ethanoic acid): i) Odourii) solubility in wateriii) effect on litmusiv) reaction with Sodium Hydrogen Carbonate
	3 rd	Ethanoic acid – physical, chemical properties and its uses
	4 th	Soaps and detergents ,Action of soap on soft and hard water, Practical - Study of the comparative cleaning capacity of a sample of soap in soft and hard water.
	5 th	Exercise Questions
December	1 st & 2 nd	Revision

PORTION FOR EXAMINATION (CHEMISTRY :CLASS 10)

SESSION : 2022-2023

EXAM	CHAPTER NUMBER	NAME OF THE CHAPTER
1st PERIODIC TEST	01	*Chemical Reactions and Equations
	02	*Acids Bases and Salts
2nd PERIODIC TEST	01	*Chemical Reactions and Equations
	02	*Acids Bases and Salts
	03	*Metals and Non Metals
3rd PERIODIC TEST	04	*Carbon and its compounds
	05	*The periodic classification of elements
PREBOARD	01	<ul style="list-style-type: none">• Chemical reactions and equations• Acids, Bases and Salts• Metals and Non-Metals• Carbon and its compounds The periodic classification of elements
	02	
	03	
	04	
	05	
BOARD EXAM		<ul style="list-style-type: none">• Entire Syllabus



M.G.M. HIGHER SECONDARY SCHOOL, B.S. CITY

Month wise Syllabus Break - Up : 2022 - 2023

CLASS - X

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<u>Term</u>	<u>Month</u>	<u>Week</u>	<u>Book</u>	<u>Chapter/Topic</u>
1 st periodic	April	1 st	क्षितिज भाग- 02	10. नेताजी का चश्मा - कहानी
		2 nd	मानक हिंदी व्याकरण- 10	रचना के आधार पर वाक्य
		3 rd		
	May	4 th	मानक हिंदी व्याकरण- 10	रचना के आधार पर वाक्य
		5 th		
		1 st	क्षितिज भाग- 02	01. उधौ तुम हौ अति- कविता
	June	2 nd		
		3 rd	कृतिका भाग- 02	01. माता का आँचल - कहानी
	July	4 th		
		5 th	व्याकरण - 10	व्याकरण- वाच्य एवं परिभाषा एवं भेद
		1 st		
	August	2 nd	क्षितिज भाग- 02	11. बाल गोबिन भगत
		3 rd		व्याकरण- विज्ञापन लेखन
		4 th	व्याकरण - 10	
		5 th		
		1 st		
		2 nd	व्याकरण - 10	व्याकरण- पद परिचय

Half Yearly	September	3 rd	क्षितिज भाग-02	12 लखनवी अंदाज
		4 th	व्याकरण – 10	अनुच्छेद लेखन
		5 th		
	October	1 st	क्षितिज भाग-02	
		2 nd	व्याकरण – 10	अलंकार परिभाषा एवं भेद
		3 rd	क्षितिज भाग-02	03 साना साना हाथ जोडि आत्मकथ्य
	November	1 st		स्ववत लेखन एवं ई मेल लेखन
		3 rd	रचनात्मक कार्य	05 उत्साह एवं अट नहीं रही है
		4 th	व्याकरण –10	पत्र लेखन औपचारिक एवं अनौपचारिक
	December	1 st	क्षितिज भाग-02	14 एक कहानी यह भी
		2 nd	व्याकरण –10	06 यह दंतुरित मुस्कान
		3 rd	क्षितिज भाग-02	
2 nd periodic	January	4 th	क्षितिज भाग-02	02 राम लक्ष्मण परशुराम संवाद
		1 st	क्षितिज भाग-02	
		2 nd		
		3 rd		
		4 th		
		1 st		
		2 nd		
Pre Board Exam.				

			<p>क्षितिज भाग- 02</p> <p>व्याकरण – 10</p> <p>क्षितिज भाग- 02</p> <p>क्षितिज भाग- 02</p> <p>कृतिका भाग- 02</p> <p>व्याकरण – 10</p>	<p>17 संस्कृति अनुच्छेद लेखन अलंकार परिभाषा एवं भेद</p> <p>Revision of Complete Syllabus</p> <p>परीक्षा का वर्णन :-</p> <p>1st periodic:- जुलाई अंश – April, May, June 10. नेताजी का चश्मा रचना के आधार पर वाक्य 01. उधौ तुम हौ अति- 01. माता का ऑचल वाच्य 11. बाल गोबिन भगत विज्ञापन लेखन पद परिचय</p> <p>Half Yearly :- सितंबर अंश- July, August, September 13 मानवीय करुणा रस 04 आत्मकथ्य 03 साना साना हाथ जोड़ि अपठित गद्यांश एवं काव्यांश 05 उत्साह एवं अट नहीं रही है, अनुच्छेद लेखन संदेश लेखन विज्ञापन लेखन पत्र लेखन 14 एक कहानी यह भी 06 यह दंतुरित मुस्कान 02 राम लक्ष्मण संवाद 07 छाया मत छूना</p> <p>1st periodic:- जुलाई अंश – April, May, June 10. नेताजी का चश्मा रचना के आधार पर वाक्य 01. उधौ तुम हौ अति- 01. माता का ऑचल वाच्य 11. बाल गोबिन भगत विज्ञापन लेखन 02 जॉर्ज पंचम की नाक पद परिचय</p> <p>Pre Board Exam :- जनवरी अंश- April to November क्षितिज भाग- 02 कृतिका भाग- 02 संपूर्ण</p>
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				पाठ्यक्रम तथा व्याकरण – 10 का संपूर्ण पाठ्यक्रम ।
				<p><u>Marks Weightage</u></p> <p>For Periodic :</p> <p>Marks</p> <p>25 खंड अ</p> <p>25 खंड ब</p> <p>कुल अंक 50</p> <p>For Half Yearly and Annual Exam</p> <p>Marks</p> <p>40 खंड अ</p> <p>40 खंड ब</p> <p>80 कुल अंक</p>



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023
SUBJECT : ENGLISH

MONTH	WEEK	CHAPTER/ TOPIC
MARCH 23 March- Session Begins	04 (4 W.D.)	Grammar- Tenses (Present and Past)
	05 (4 W.D.)	Grammar- Tenses (Past and Future) A Letter to God LR
APRIL	01 (2 W.D.)	Modals
	02 (6 W.D.)	Letter of Complaint and Inquiry A Long Walk to Freedom LR
	03 (3 W.D.)	Comprehension Passage Dust of Snow LR
	04 (6 W.D.)	Fire and Ice LR A Tiger in the Zoo LR Two Stories About Flying- 1 LR
	05 (6 W.D.)	Two Stories About Flying- 2 LR A Triumph of Surgery SR
MAY	01 (5 W.D.)	The Thief's Story SR Subject- Verb Agreement Integrated Grammar Practice- Editing and Omission
	02 (5 W.D.)	The Ball Poem LR Gap Filling Reported Speech
JUNE	04 (6 W.D.)	How to Tell Wild Animals LR The Midnight Visitor SR Reported Speech (Cont.)
	05 (4 W.D.)	A Question of Trust SR
JULY	01 (2 W.D.)	Letter Writing (Placing an order)
	02 (6 W.D.)	Letter to the Editor Amanda LR
	03 (6 W.D.)	From the Diary of Anne Frank LR
	04 (6 W.D.)	Active Passive Voice Integrated Grammar Practice
	05 (6 W.D.)	Footprints Without Feet SR Animals LR
AUGUST	01 (6 W.D.)	Glimpses of India- A Baker from Goa LR Coorg LR Tea from Assam LR
	02 (4 W.D.)	The Trees LR Writing a Paragraph
	03 (4 W.D.)	The Making of A Scientist SR Madam Rides the Bus LR
	04 (6 W.D.)	The Tale of Custard the Dragon LR Clauses The Necklace SR

	05 (3 W.D.)	Reported Speech- Commands and Requests
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SEPTEMBER	01 (3 W.D.)	The Sermon at Benaras LR Fog (Poem) LR
	02 (6 W.D.)	Mijbil the Otter LR Determiners Revision for Half Yearly Exam
	03 (5 W.D.)	Revision for Half Yearly Exam
OCTOBER	01 (1 W.D.)	Analytical Paragraph
	02 (2 W.D.)	Analytical Paragraph
	03 (6 W.D.)	The Proposal LR Integrated Grammar Practice Gap Filling Dialogue Writing
	04 (6 W.D.)	The Proposal LR Analytical Paragraph Clauses
NOVEMBER	01 (5 W.D.)	Omission Error Finding Clauses Letter Writing
	02 (5 W.D.)	Letter Writing- Complaint Letter Unseen Passage Bholi SR
	03 (6 W.D.)	Bholi SR (Contd.) For Anne Gregory LR
	04 (6 W.D.)	The Book that Saved the Earth SR The Proposal LR (Revision)
	05 (3 W.D.)	Tenses Prepositions
DECEMBER	01 (3 W.D.)	The Book that saved the Earth (Revision)
	02 (5 W.D.)	Revision

PERIODIC TEST – 01 PORTION (18 July 2022)

LR	-	01	A Letter to God
		02	Long Walk to Freedom
		03	Two Stories about Flying- 1 and 2
Poems	-	01	Dust of Snow
		02	Fire and Ice
		03	A Tiger in the Zoo
SR	-	01	A Triumph of Surgery
		02	The Thief's Story

Writing and Grammar

- Formal letters (Placing an order, Inquiry, Complaint, Letter to the Order)
- Gap Filling
- Editing / Omission
- Comprehension Passage

HALF YEARLY – (19 September 2022)

TERM- I

READING

Question based on the following kinds of unseen passages to assess inference, evaluation, vocabulary, analysis and interpretation:

1. Discursive passage (400-450 words)
2. Case based Factual passage (with visual input/ statistical data/ chart etc. 300-350 words)

WRITING SKILL

1. Formal letter based on a given situation.
 - Letter to the Editor
 - Letter of Complaint (Official)
 - Letter of Complaint (Business)

GRAMMAR

1. Tenses
2. Modals
3. Subject-Verb Concord
4. Determiner
5. Reported Speech
6. Commands and Requests
7. Statements
8. Questions

LITERATURE

Questions based on extracts / texts to assess interpretation, inference, extrapolation beyond the text and across the texts.

FIRST FLIGHT

1. A Letter to God
2. Nelson Mandela
3. Two Stories About Flying
4. From the Diary of Anne Frank
5. The Hundred Dresses 1
6. The Hundred Dresses 2

POEMS

1. Dust of Snow
2. Fire and Ice
3. A Tiger in the Zoo
4. How to Tell Wild Animals
5. The Ball Poem
6. Amanda
7. Animals

FOOTPRINTS WITHOUT FEET

1. A Triumph of Surgery
2. The Thief's Story
3. The Midnight Visitor
4. A Question of Trust
5. Footprints Without Feet

PERIODIC TEST – 02 PORTION (28 November 2022)

LR	-	01	Glimpses of India
		02	Mijbil the Otter
		03	Madam Rides the Bus
Poems	-	01	The Trees
		02	Fog
		03	The Tale of Custard the Dragon
SR	-	01	The making of a Scientist
		02	The Necklace

Writing and Grammar

- Formal letters (Placing an order, Inquiry, Complaint, Letter to the Order)
- Gap Filling
- Editing / Omission, Reported Speech, Voice.
- Comprehension Passage

PRE – BOARD – (16 January 2023)

PORTION- The Entire Syllabus



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023

CLASS : X

SUBJECT : HISTORY & ECONOMICS)

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME/ TOPIC
APRIL	2	1-ECONOMICS	DEVELOPMENT
			What Development promises, Income and Other Goals, National Development,
			How to compare different countries or states Average income, income and other criterion; Public Facilities,
			Sustainability of Development
	3	1-HISTORY	THE RISE OF NATIONALISM IN EUROPE:
			Introduction; The French Revolution and the Idea of the Nation
			The Making of Nationalism in Europe; The Age of Revolutions-1830-1848 The Making of Germany, Italy and Britain
MAY	1	2-ECONOMICS	Visualizing the Nation; Nationalism and Imperialism Nationalism and Imperialism
	2		SECTORS OF INDIAN ECONOMY
			Introduction; Sectors of Economic Activities;
			Historical change in Sectors; Rising importance of Tertiary Sector
JUNE	4		Employment Generation, Division of Sectors, Protective Measures for Unorganized
	5		Sectors in terms of Ownership; Public Sector and Private Sector
JULY	1	2-HISTORY	NATIONALISM IN INDIA Introduction; Impact of First World War; The Idea of Satyagrah; The Rowlatt Act
	2	2-HISTORY	Khilafat and Non- Cooperation Movement and Differing Strands within the Movement
JULY	3		REVISION (Periodic-1) Towards Civil Disobedience Movement
	4		Salt Satyagrah, Movements of Peasants, Workers,
	5		Limits of Civil Disobedience Movement and The Sense of Collective Belonging
	1		MONEY AND CREDIT Money as a medium of exchange, Modern

AUGUST		3-ECONOMICS	forms of Money, Loan activity of India
	2		Two Different Credit Situations, Terms of Credit, Formal Sector Credit in India
	3		Self- Help Groups THE MAKING OF A GLOBAL WORLD(HISTORY) The Pre-modern world
	4&5		The Nineteenth Century (1815-1914)
SEPTEMBER	1	3-HISTORY	The Inter War Economy
	2		Rebuilding a World Economy : The Post - War Era
	3	4-HISTORY	REVISION THE AGE OF INDUSTRIALIZATION Proto Industrialization, Pace of Industrial Change
OCTOBER	1&2		Hand labour and Steam Power, Life of workers
	3		Industrialization in Colonies, Factories Come Up
	4		The Peculiarities of Industrial Growth, Market for Goods
	5	5-HISTORY	PRINT CULTURE AND THE MODERN WORLD The First Printed Books, Print comes to Europe,
NOVEMBER	1	5-HISTORY	The Print Revolution and its impact, The Reading Mania, The 19 th Century
	2		India and the world of Prints, Religious Reforms and Public Debates
	3		Women and Print; Print and Censorship
	4&5	4-ECONOMICS	GLOBALISATION AND THE INDIAN ECONOMY
			Production across countries, Foreign Trades and Interaction of Markets,
DECEMBER	1		Globalization, Factors that have enabled Globalization
	2		WTO, Impact, Fair Globalization

CONSUMER RIGHTS : PROJECT WORK

MARKETING AND SALES (412) Class X (Session 2022-23) HALF YEARLY Total Marks: 100 (Theory-50 + Practical 50)			
	UNIT S	NO. OF HOURS for Theory and Practical	MAX. MARKS for Theory and Practical
Part A	Employability Skills		
	Unit 1 : Communication Skills-II*	13	-
	Unit 2 : Self-Management Skills-II	07	5
	Unit 3 : ICT Skills-II	13	5
	Total	33	10
Part B	Subject Specific Skills		
	Unit 1: Sales with other functions-Introduction to Marketing Mix	20	10
	Unit 2: Market (Segmentation, Targeting and Positioning)	30	10
	Unit 3: Basic concept of Sales and selling	30	20
	Total	80	40
Part C	Practical Work		
	Project	50	10
	Viva		05
	Practical File		15
	Demonstration of skill competency via Lab Activities		20
	Total	50	50
GRAND TOTAL		200	100

Note: * marked units are to be assessed through Internal Assessment/ Student Activities. They are not to be assessed in Theory Exams.



MARKETING AND SALES (412) Class X (Session 2022-23) HALF YEARLY Total Marks: 100 (Theory-50 + Practical-50)			
	UNIT S	NO. OF HOURS for Theory and Practical	MAX. MARKS for Theory and Practical
Part A	Employability Skills		
	Unit 1 : Communication Skills-II*	13	-
	Unit 2 : Self-Management Skills-II	07	5
	Unit 3 : ICT Skills-II	13	5
	Total	33	10
Part B	Subject Specific Skills		
	Unit 1: Sales with other functions-Introduction to Marketing Mix	20	10
	Unit 2: Market (Segmentation, Targeting and Positioning)	30	10
	Unit 3: Basic concept of Sales and selling	30	20
	Total	80	40
Part C	Practical Work		
	Project	50	10
	Viva		05
	Practical File		15
	Demonstration of skill competency via Lab Activities		20
	Total	50	50
	GRAND TOTAL	200	100

Note: * marked units are to be assessed through Internal Assessment/ Student Activities. They are not to be assessed in Theory Exams.

SYLLABUS BREAK-UP YEAR 2022-2023

CLASS- X

SUBJECT :MATHEMATICS

MONTH	CHAPTER NAME	WEEK	TOPICS
APRIL	REAL NUMBERS	1 st	Euclids division lemma,Fundamental theorem of arithmetic
		2 nd	Revisiting irrational numbers,
	POLYNOMIALS	3 rd	Zeroes of a polynomial, Relation between zeroes and coefficients of a polynomial
	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	4 th	,Pair of linear equations, graphical solution
		5 th	Algebraic solutions,
MAY		1 st & 2 nd	Word problems
JUNE	QUADRATIC EQUATIONS	3 rd & 4 th	Introduction of quadratic equations,Solutions of quadratic equations by factorization Quadratic formula ,Nature of roots,
		5 th	Word problems
JULY	ARITHMETIC PROGRESSION	1 st & 2 nd	Introduction of AP, Nth term of AP,sum of first n terms of an AP
		3 rd	Word problems of AP
	COORDINATE GEOMETRY	4 th	Distance formula,section formula,
	TRIANGLES	5 th	Similar figures,BPT
AUGUST	TRIANGLES	1 st	Criteria of similarity of triangles,application of theorems
	CIRCLES	2 nd	Introduction of circles,tangents to a circle ,Application of theorems of circles
	TRIGONOMETRY	3 rd & 4 th , 5 th	Trigonometric ratios,Ratio of specific angles,trigonometric identities,
SEPTEMBER	HEIGHTS AND DISTANCES	1 st & 2 nd	Heights and distances
		3 rd	REVISION FOR HALF YEARLY
OCTOBER	AREA RELATED TO CIRCLES	1 st , 2 nd & 3 rd	Perimeter and area of a circle ,area of sector and segment

	SURFACE AREA AND VOLUMES	4 th & 5 th	Introduction surface area and volumes,
NOVEMBER	SURFACE AREA AND VOLUMES	1 st	Surface area and volumes of combination figures
		2 nd	Surface area and volumes of combination figures contd.
	STATISTICS	3 rd	Calculation of mean ,
		4 th	Calculation of median and mode
	PROBABILITY	5 th	Probability
DECEMBER	REVISION	1 st & 2 nd	Revision for promotion examination

SANGEETA MISHRA



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023

CLASS – X
SUBJECT – PHYSICS

MONTH	WEEK	CHAPTER NO. AND NAMES	TOPIC
APRIL	I AND II week	Ch-10 Light reflection and refraction of light	Reflection of light by curved surfaces, Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length,
	III week		Sign convention for reflection by spherical mirrors, Mirror formula (Derivation not required), magnification.
	IV week		Numericals based on mirror formulas, applications of spherical mirrors
	V week		Numericals based on mirror formula Experiment-10(i)
MAY	I		Refraction; Laws of refraction, refractive index. Numericals
	II		Refraction of light by spherical lens; Image formed by spherical lenses Experiment-10(ii)

JUNE	III		Sign conventions for spherical lenses lens formula and magnification, Power of a lens,
	IV		Numericals applications of spherical lenses,Revision
	V		Numericals,Experiment-11,Revision
JULY	I AND II	Ch-11 Human eye and colourful world	Functioning of a lens in human eye Power of accommodation Defects of vision and their correction,Revision
	III		PT-1
	IV		Refraction of light through prism, dispersion of white light by a glass prism atmospheric refraction,
	V		Scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset). Experiment-13
AUGUST	I	Ch 12 Electricity	Electric current and circuit, electric potential and potential difference, Ohm's law,Resistance
	II		Factors on which resistance of a conductor depends ,Resistivity, Experiment-4
	III		Resistance of a system of conductors,Resistance in series, Resistance in parallel and its applications in daily life.
	IV		Numericals based on combination of resistors
	V		Heating effect of electric current,Practical application of heating effect of electrical current in daily life, , Interrelation between P, V, I and R

SEPTEMBER	I WEEK		Electric power, Numericals, Revision
	II WEEK		Numericals, Experiment-5 Revision
	III WEEK		Half yearly exam
	IV WEEK	Ch 13 Magnetic effect of electric current	Magnetic field and field lines, Magnetic field due to current carrying straight conductor, Right hand thumb rule
	V WEEK		field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule
OCTOBER	I, II AND III WEEK	Ch 13 Magnetic effect of electric current	Force on current carrying conductor, Fleming's Left Hand Rule
	IV WEEK		Direct current. Alternating current: frequency of AC. Advantage of AC over DC.
	V WEEK		Domestic electric circuits Experiment-5
NOVEMBER	I WEEK		Revision
	II WEEK		Revision
	III WEEK		Revision
	IV WEEK		Revision
	V WEEK		PT-2
DECEMBER	I		PT-2
	II		Revision
	III		Revision
	IV		Revision
JANUARY	I		Revision
	II		Revision
	III		2 nd prebo
	IV		Revision
	V		Revision



M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY

Month wise Syllabus Break - Up : 2022 - 2023

Class : X

Subject- SANSKRIT

Month	Week	Chapter no	Chapter name
April	2nd	शेमुषी 2 पाठ 1 व्याकरणम् सन्धिः	शुचिपर्यावरणम् व्यंजनसन्धिः –वर्गीयप्रथमक्षराणां तृतीयवर्णपरिवर्तनम्, प्रथमवर्णस्य पंचमवर्ण परिवर्तनम्
	3rd	शेमुषी 2 पाठ 1 (शेष) व्याकरणम् सन्धिः	शुचिपर्यावरणम् विसर्गसन्धिः –विसर्गस्य उत्त्व , रत्व
	4th	शेमुषी 2 पाठ 2 व्याकरणम् सन्धिः	बुद्धिर्बलवतीसदाविसर्गसन्धिः –विसर्गलोपः , विसर्गस्य स्थाने स् ,श् ,ष्
	5th	शेमुषी 2 पाठ 2(शेष) व्याकरणम् समास	बुद्धिर्बलवतीसदा विभक्तितत्पुरुषः
May	1st	शेमुषी 2 पाठ 4 व्याकरणम् –समास	शिशुलालनम् अव्ययीभावः, द्वन्द्वः
	2nd	शेमुषी 2 पाठ 3 (शेष) व्याकरणम् –समास	शिशुलालनम् द्वन्द्वः , बहुव्रीहिः
June	4th	शेमुषी 2 पाठ 4 व्याकरणम् –	घटिका अव्ययः
	5th	शेमुषी 2 पाठ 4 (शेष) व्याकरणम्	जननी तुल्यवत्सला अपठितगद्यांशम् चित्र –लेखनम् अनुच्छेद –लेखनम्

July	1st	अपठितअवबोधनमरच नात्मककार्यम्	जननीतुल्यवत्सलापत्र-लेखनम् अनुवादाः
	2nd	शेमुषी 2 पाठ 5 रचनात्मक कार्यम्	जननी तुल्यवत्सला अनुवादाः
	3rd	शेमुषी 2 पाठ 5व्याकरणम् प्रत्यय तद्धिताः	जननीतुल्यवत्सला मतुप्
	4th	शेमुषी 2 पाठ5 (शेष) व्याकरणम् प्रत्यय तद्धिताः	जननीतुल्यवत्सला मतुप् , ठक्
	5th	शेमुषी 2 पाठ 6व्याकरणम् प्रत्यय	सुभाषितानि त्व , तल्
August	1st	शेमुषी 2 पाठ 6(शेष) व्याकरणम् प्रत्यय	सुभाषितानि टाप् , डीप्
	2nd	शेमुषी 2 पाठ 7व्याकरणम्	सौहार्दप्रकृतेः शोभावाच्यः
	3rd	शेमुषी 2पाठ 7(शेष) व्याकरणम्	सौहार्दप्रकृतेः शोभावाच्यः
	4th	व्याकरणम्	वाच्यःअशुद्धि-संशोधनम्
September	1st	शेमुषी 2 पाठ7व्याकरणम्	सौहार्दप्रकृतेः शोभाअशुद्धि-संशोधनम् सन्धिः(पुनरावृत्ति)
	2nd	शेमुषी 2पाठ 8(शेष) व्याकरणम्	विचित्रः साक्षीसमास , प्रत्ययाः ,वाच्यः(पुनरावृत्ति)
	3rd	शेमुषी 2 पाठ1,2,4,5,6रचनात्म ककार्यम्	(पुनरावृत्ति) चित्र-लेखनम् ,अनुच्छेदलेखनम् , अनुवादाः (पुनरावृत्ति)
		परीक्षा	

October	2nd	शेमुषी 2 पाठ8	विचित्रः साक्षी
	3rd	शेमुषी 2 पाठ8(शेष)व्याकरणम्	सूक्तयःवाच्यः ,घटिका (पुनरावृत्ति)
	4th	शेमुषी 2 पाठ9व्याकरणम्	सूक्तयः अशुद्धि-संशोधनम् (पुनरावृत्ति)
	5th	व्याकरणम्शेमुषी 2पाठ9(शेष)	विचित्रः साक्षी समास (पुनरावृत्ति)
November	1 st	शेमुषी 2 पाठ12व्याकरणम्	अन्योक्त्यःसन्धिः (पुनरावृत्ति)
	2 nd	शेमुषी 2 पाठ 12व्याकरणम्	अन्योक्त्यः प्रत्ययाः (पुनरावृत्ति)
	3 rd	शेमुषी 2 पाठ 12(शेष)रचनात्मककार्यम्	अन्योक्त्यः(न परीक्षाकृते)अनुवादाः(पुनरावृत्ति)
	4 th	शेमुषी 2 पाठ 1,2 व्याकरणम्	(पुनरावृत्ति)वाच्यः (पुनरावृत्ति)
	5th	शेमुषी 2 पाठ4,5,6 व्याकरणम्	(पुनरावृत्ति) अव्ययाः (पुनरावृत्ति)
December	1st	शेमुषी 2 पाठ— 7,8 रचनात्मककार्यम्	(पुनरावृत्ति) चित्र-लेखनम् ,अनुच्छेदलेखनम्
	2nd	पाठ— 9,12रचनात्मककार्यम्	(पुनरावृत्ति) अनुवादाः



MGM HIGHER SECONDARY SCHOOL, B.S.CITY
SYLLABUS BREAK UP FOR THE YEAR 2022-2023

CLASS : X
SUBJECT : BIOLOGY

MONTH	WEEK	CHAPTER NAME AND TOPICS
APRIL	1 st & 2 nd	LIFE PROCESSES: Introduction, Nutrition: Plant nutrition: mechanism of photosynthesis, Raw materials of photosynthesis: photoreceptors, CO ₂ , sunlight, water
APRIL	3 rd	Heterotrophic nutrition: nutrition in unicellular organisms
	4 th	Nutrition in human beings
	5 th	Respiration: aerobic and anaerobic, Respiratory surface.
MAY	1 st & 2 nd	Respiration in human beings: human respiratory system, breathing mechanism and transportation of respiratory gases.
JUNE	3 rd & 4 th	Transportation in animals: circulatory system-human heart: Structure and working Practical: To prepare a temporary slide of leaf epidermis to study stomata. Practicals: To show that CO ₂ , is released during respiration
JUNE	5 th	circulation of blood, blood vessels, blood clotting, lymph, transportation of water
JULY	1 st & 2 nd	Translocation of food in plants; Excretion: human excretory system,
JULY AUGUST	3 rd	Structure and working of nephrons, haemodialysis, Excretion in plants. CONTROL AND COORDINATION: Nervous system: neurons
	4 th	transmission of impulses, synapse, Reflex action
	5 th	Nervous system: Peripheral nervous system, central nervous system- Brain spinal cord
	1 st	; Protection of CNS, Coordinated action, Coordination in plants: growth independent movement.
AUGUST	2 nd & 3 rd	Coordination in plants: growth dependent movements (tropic movement

SEPTEMBER	4 th and 5 th	Need for Hormonal system, Plant Growth Hormones,
	1 st & 2 nd	Hormonal control: Hormonal control in animals, feedback mechanism
SEPTEMBER	3 rd	REVISION FOR HALF YEARLY EXAMINATION
	4 th and 5 th	HALF YERLY EXAMINATION
OCTOBER	1 ST , 2 nd & 3 rd	HOW DO ORGANISMS REPRODUCE? Importance of reproduction, importance of DNA copying, variation and it's importance Asexual reproduction: fission, fragmentation, budding, regeneration
OCTOBER	4 th & 5 th	Asexual reproduction: spore formation vegetative propagation
NOVEMBER		Practicals: To study asexual reproduction using permanent slides.
	1 st	Sexual reproduction: importance. Sexual reproduction in flowering plants Practicals: To study the features of dicot seed.
	2 nd	Reproduction in human beings ,Reproductive health
	3 rd	. HEREDITY AND VARIATIONS: Accumulation of variations during reproduction, Heredity: inherited traits, Rules for inheritance of traits, monohybrid cross
	4 th	Dihybrid cross
	5 th	,expression of traits, Sex Determination , OUR ENVIRONMENT Biodegradable and non biodegradable wastes, ecosystem, , Food chain and food web
DECEMBER	1 st & 2 nd	Flow of energy ,10% law, Biological Magnification,, Ozone layer depletion, Managing the garbage we produce

PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2022-2023

CLASS- X

SUBJECT : BIOLOGY

EXAM	CHAPTER NO.	NAME OF THE CHAPTER
1st Periodic	06	Life processes
Half Yearly	06	Life Processes
	07	Control and Coordination
3rd periodic test	06	Life Processes
	07	Control and Coordination
	08	How do Organisms Reproduce?
Pre- Board	06	Life processes
	07	Control and Coordination
	08	How do Organisms Reproduce?
	09	Heredity
	15	Our environment
Board Exam		Entire Syllabus



MGM HIGHER SECONDARY SCHOOL
BOKARO STEEL CITY
SYLLABUS BREAK-UP
SESSION-2022-23
CLASS – X
SUBJECT – INFORMATION TECHNOLOGY (042)

MONTH	WEEK	CHAPTER/TOPIC
MARCH-22	4 TH	PART – B - CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u> Styles in documents, Formatting windows, Fill format mode, Create new styles, Updating styles
	5 TH	PART – B - CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u> Insert image/graphics, Insert scanned image, Inserting chart, Resize images, Crop image, Delete image, Positioning image
APRIL-22	1 ST	PART-B- CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u> Template, Modifying default template, Using the template, Defining a Hierarchy of heading
	2 ND	PART – B - CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u> Table of contents, Customizing a table, Mail merge, Print address label
	3 RD	PART – A -CHAPTER 1: <u>COMMUNICATION SKILLS-II</u> Methods of communication, Communication cycle, Importance of feedback
	4 TH	PART – A -CHAPTER 1: <u>COMMUNICATION SKILLS-II</u> Barriers in effective communication, Types of barrier, Measures to overcome barrier, Principles of effective communication, 7C's of communication
	5 TH	PART – B - CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u> Consolidating data, Creating SUBTOTAL
MAY-22	1 ST	PART – B - CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u> What-If analysis
	2 ND	PART – B - CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u> Goal seek, Solver
JUNE-22	3 RD	PART-B- CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u> Link data and spreadsheet, Cell referencing
	4 TH	PART – B - CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u> Hyperlink, Sharing a document
	5 TH	PART – B - CHAPTER 8: <u>MORE ABOUT SPREADSHEET</u> Reviewing changes, Macros, Arguments passed as values
JUL Y-22	1 ST	PART – B - CHAPTER 8: <u>MORE ABOUT SPREADSHEET</u> Recording changes, Add, Edit and format comment

	2 ND	PART – A -CHAPTER 2: <u>SELF-MANAGEMENT-II</u> Self-management, Stress, How to manage stress? Working independently, Self-awareness, Self-motivation, Self-regulation.
	3 RD	PART – A -CHAPTER 3: <u>INFORMATION AND COMMUNICATION TECHNOLOGY-II</u> Operating system-classification, Functions, Types, Mobile OS, Desktop, Icons, Panel/Taskbar, System tray, Clock, Main menu/start button, Running an application, Basic components of interface screen
	4 TH	PART – A -CHAPTER 3: <u>INFORMATION AND COMMUNICATION TECHNOLOGY-II</u> Device driver, File system, File management, creating new folder, move a folder, Copy folder, rename a folder, delete folder, Restore folder, Properties of file
	5 TH	PART – A -CHAPTER 3: <u>INFORMATION AND COMMUNICATION TECHNOLOGY-II</u> Caring computer, Cleaning the computer components, preparing a maintenance schedule, Malware, Symptoms and Effect of a malware, Virus infection, Ways to prevent a virus, Update antivirus, Removing temporary files
AUGUST-22	1 ST	PART – B - CHAPTER 9: <u>DATABASE MANAGEMENT</u> Database management system, Benefits of DBMS, Elements of a Database, Relational DBMS, To begin with database packages
	2 ND	PART – B - CHAPTER 9: <u>DATABASE MANAGEMENT</u> Basic elements of base table, Creating a table, Create table by using wizard
	3 RD	PART – B - CHAPTER 9: <u>DATABASE MANAGEMENT</u> Create table by create view, Entering data into a table, Forms, Reports
	4 TH	PART – B - CHAPTER 9: <u>DATABASE MANAGEMENT</u> Manipulating data, Create and Manage queries
	5 TH	PART – B - CHAPTER 10: <u>MORE ON DATABASE</u> DDL, DML, DCL, TCL
SEPTEMBER-22	1 ST	PART – B - CHAPTER 10: <u>MORE ON DATABASE</u> Database and operators, Data types, SQL operators
	2 ND	PART – B - CHAPTER 10: <u>MORE ON DATABASE</u> Create table, Managing query, Select, Insert, Update and Delete statement
	3 RD	PART – A -CHAPTER 4: <u>ENTREPRENEURSHIP-II</u> Introduction, Qualities of entrepreneurs, Function of entrepreneur, Importance of entrepreneur

	4 TH 5 TH	HALF-YEARLY EXAMINATION
OCTOBER-22	2 ND	PART – A -CHAPTER 4: <u>ENTREPRENEURSHIP-II</u> Myth about entrepreneurship, Entrepreneurship as a career option.
	3 RD	PART – B - CHAPTER 11: <u>WEB APPLICATION</u> Various types of impairment, Ease of access in windows, Networking fundamentals, Benefits of networking, LAN, MAN, WAN, Network topology
	4 TH	PART – B - CHAPTER 11: <u>WEB APPLICATION</u> Internet, WWW, Features of WWW, Internet Terminology, HTML, Webpage, Web browser, Web address, DNS, Web servers, URL, ISP, Modem, IP address, Web portal
NOVEMBER-22	1 ST	PART – B - CHAPTER 11: <u>WEB APPLICATION</u> Switch, HUB, Bridge, Router, Gateway, Hyperlink, Bandwidth, Internet connectivity options, Internet access through Wi-Fi, Data transfer on internet
	2 ND	PART – B - CHAPTER 11: <u>WEB APPLICATION</u> Instant messaging, Blog, Offline blog editor, Online transaction, Illustration of online shopping, e-Commerce, Commonly used application-e-learning, e-Governance, e-banking, UPI, Importance of secure password
	3 RD	PART – B - CHAPTER 12: <u>WEB SECURITY AND WORKPLACE SAFETY</u> Introduction to web/Internet security, Need of internet security, Cyber threat-malware, DoS attack, Man in the middle Attack, Spoofing, Phishing
	4 TH	PART – B - CHAPTER 12: <u>WEB SECURITY AND WORKPLACE SAFETY</u> Best practices for web security, Health and safety at workplace, Fire safety measures, Falls and slips, Electrical shocks and its effects
	5 TH	PART – B - CHAPTER 12: <u>WEB SECURITY AND WORKPLACE SAFETY</u> First aid, Case study on hazard- Lockdown Emergency, Hazards of COVID 19 Epidemic, Accident-types, precautions, and Safety measures, Handling accident, Emergency – Types, Workplace evacuation, Hazard , Health and safety
DECEMBER-22	1 ST	PART – A -CHAPTER 5: <u>GREEN SKILLS-II</u> Introduction to environment, Ecosystem, Natural & artificial environment, Natural resources
	2 ND	PART – A -CHAPTER 5: <u>GREEN SKILLS-II</u> Sustainable development, Importance of sustainable development, Problems related to sustainable development.
		SYLLABUS COMPLETION

MARKS DISTRIBUTION FOR IT-402**HALF-YEARLY EXAMINATION**

SECTIONS	UNITS	MAX. MARKS
PART- A	Employability Skills	
	Self- Managaement Skills- II	10
	Information and Communication Technology Skills- II	
PART- B	Subject Specific Skills	
	Digital Documentation (Advanced)	16
	Electronic spreadsheet (Advanced)	20
	Database Management Sytem (Basic Introduction)	04
PART- C	Practical Work	
	Practical Examination	30
	Written Test	
	Viva Voce	
PART- D	Project work/ Field Visit	
	Practical File/ Student Portfolio	20
	Viva Voce	
THEORY EXAMINATION (PART A + PART B)		50
PRACTICAL + PROJECT (PART C + PART D)		50

PRE-BOARD EXAMINATION

SECTIONS	UNITS	MAX. MARKS
PART- A	Employability Skills	
	Self- Managaement Skills- II	3
	Information and Communication Technology Skills- II	3
	Entrepreneurial Skills-II	4
PART- B	Subject Specific Skills	
	Digital Documentation (Advanced)	8
	Electronic spreadsheet (Advanced)	10
	Database Management Sytem	12
	Web Applications and Security	10
PART- C	Practical Work	
	Practical Examination	30
	Written Test	
	Viva Voce	
PART- D	Project work/ Field Visit	
	Practical File/ Student Portfolio	20
	Viva Voce	
THEORY EXAMINATION (PART A + PART B)		50
PRACTICAL + PROJECT (PART C + PART D)		50

Month	Week	Chapter No.	Chapter Name/Topic
April	1st	1-Political Science	POWER SHARING Belgium and Srilanka Majoritarianism in Sri Lanka
April	& 2nd		Accommodation in Belgium , Forms of Power Sharing
April	3rd	1-Geography	RESOURCES AND DEVELOPMENT Types of Resources , Resources Planning Land as a resources resource, changing land-use pattern; Land degradation and conservation measures
	& 4th		
April	5th		Soil as a Resource-soil types and distribution;
May	1st		FOREST AND WILDLIFE RESOURCES Conservation of Forest and Wildlife in India

May	2nd	2-Geography	Types and distribution of forests and wildlife resources Community and conservation
June	4th	3-Geography	WATER RESOURCES ; Sources ,distribution, utilization ,multi-purpose projects
	5th		Water scarcity, need for conservation and management ,Rainwater Harvesting FEDERALISM What is Federalism? What makes India a Federal Country? How is Federalism practiced? Decentralization in India

			Types of farming ,Cropping pattern
	2nd		Major Crops; technological and institutional reforms
	3rd		Contribution of Agriculture to national economy –employment and output
Aug	4th	5-Geog	MINERALS AND ENERGY RESOURCES ;
			Types of minerals ,mode of occurrence of minerals
Sep.	5th		Distribution(Note :on map only)use and economic importance of minerals, conservation
	1st		Types of power resources: conventional and non-conventional, Conservation of Energy Resources
	2nd	6-Political Science	POLITICAL PARTIES
			Why do we need Political Parties? How many Parties should we have?
	3rd		National political parties/State political parties
			Challenges to Political parties, Reforms

Oct.	1st & 2nd	6-Geog	MANUFACTURING INDUSTRIES
			Importance of Manufacturing, Contribution of industries to the national economy
Oct.	3rd		Classification of industries
Oct.	4th		Agro-based industries, mineral based industries
Oct.	5th		IT and Electronic industries, Industrial pollution and degradation of environment, Measure to control degradation
Nov.	1st	7-Geog	
	2nd		LIFELINES OF INDIAN ECONOMY :

Nov.			Importance of means of communication and transportation
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Nov..	3rd		Trade & tourism
Nov..	4th	7-Political science	OUTCOMES OF DEMOCRACY
			How do we assess Democracy? Accountable ,Responsive and legitimate government ,Economic growth and Development
Nov.	5th		Reduction of inequality and poverty ,Accommodation of social diversity ,Dignity and freedom of citizens
Dec.	1st & 2nd		REVISION
			REVISION

BY: - VIVEK KUMAR TIWARY

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