



**M.G.M HIGHER SECONDARY SCHOOL, BOKARO**  
**SYLLABUS BREAKUP FOR THE YEAR : 2021 - 2022**  
**CLASS – X**  
**SUBJECT – ARTIFICIAL INTELLIGENCE**

MONTH	WEEK	Unit/Session	TOPIC/TOPIC NAME
MARCH	4 <sup>th</sup>	1. Foundational concepts of AI	<b>Session:</b> What is Intelligence? <b>Session:</b> Decision Making. <ul style="list-style-type: none"> <li>How do you make decisions?</li> </ul> Make your choices! <b>Session:</b> what is Artificial Intelligence and what is not?
APRIL	1 <sup>st</sup>	Basics of AI: Let's Get Started	<b>Session:</b> Introduction to AI and related terminologies. <ul style="list-style-type: none"> <li>Introducing AI, ML &amp; DL.</li> </ul> Introduction to AI Domains (Data, CV & NLP) <b>Session:</b> Applications of AI – A look at Real-life AI implementations
	2 <sup>nd</sup>	2. Introduction To Problem Scoping.	<b>Session:</b> Introduction to AI Project Cycle. <b>Session:</b> Understanding Problem Scoping & Sustainable Development Goals
	3 <sup>rd</sup>	Data Acquisition & Data Exploration	<b>Session:</b> Simplifying Data Acquisition <b>Session:</b> Visualizing Data
	4 <sup>th</sup>	Modelling & Evaluation	<b>Session:</b> Introduction to modelling <ul style="list-style-type: none"> <li>Introduction to Rule Based &amp; Learning Based AI Approaches</li> <li>Introduction to Supervised Unsupervised &amp; Reinforcement Learning Models</li> </ul> Neural Networks <b>Session:</b> Evaluating the idea!
MAY	1 <sup>st</sup>	3. Advance Python	<b>Session:</b> Introduction to Python <b>Session:</b> Python Basics. (To be assessed practically )
	2 <sup>nd</sup>	Communication skills(Part A)	Introduction to Communication and its method. Types of communications.
	3 <sup>rd</sup>		Barriers of communication.
	4 <sup>th</sup>		7C's of communication.
JUNE	3 <sup>rd</sup>		6. Natural Language Processing.
	4 <sup>th</sup>		<b>Session:</b> Revising AI project cycle
JULY	1 <sup>st</sup>	Chat bots	<b>Session:</b> Introduction to chat bots.
	2 <sup>nd</sup>	Language differences.	<b>Session:</b> Human Languages vs computer language.
	3 <sup>rd</sup>	Concepts of NLP	<b>Session:</b> Text Processing <b>Session:</b> Data processing.
	4 <sup>th</sup> 5 <sup>th</sup>	Concepts of NLP Self Management	<b>Session:</b> Bag of words. <b>Session:</b> NLTK.

AUGUST	1 <sup>st</sup>	4. Data Science	<b>Session:</b> Introduction to Data Science. <b>Session:</b> Application of Data Science.
	2 <sup>nd</sup>		<b>Session:</b> Revisiting AI project cycle.
	3 <sup>rd</sup>	Concepts of Data Science.	<b>Session:</b> Python for Data Sciences. <b>Session:</b> Statistical learning & Data visualization
	4 <sup>th</sup>	Self Management skill.	
	5 <sup>th</sup>		<b>( Practical exam)</b>
SEPTEMBER	1 <sup>st</sup>	ICT Skills	
	2 <sup>nd</sup>	Revision	<b>Half Yearly</b>
	3 <sup>rd</sup>		<b>Half Yearly</b>
	4 <sup>th</sup>		<b>Half yearly</b>
OCTOBER	1 <sup>st</sup>	<b>7. Evaluation</b>	<b>Session:</b> Introduction to Model Evaluation
	2 <sup>nd</sup>	Confusion Matrix	<b>Session &amp; Activity:</b> Confusion Matrix
	3 <sup>rd</sup>	Evaluation Score Calculation	<b>Session:</b> Understanding Accuracy, Precision, Recall & F1 Score
	4 <sup>th</sup>	Entrepreneurial Skills.	
NOVEMBER	1 <sup>st</sup>	<b>5.Computer Vision</b>	<b>Session :</b> Introduction to Computer Vision. <b>Session:</b> Applications of CV.
	2 <sup>nd</sup>	Concepts of CV	<b>Session:</b> Understanding CV Concepts. Pixels, How do computer see images? Image Features.
	3 <sup>rd</sup>	Open CV	<b>Session:</b> Introduction to open CV. Image Processing.
	4 <sup>th</sup>	Green Skills	
			<b>Note: completion of syllabus and Submission Of Record file Project and Workshop.</b>

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

EXAM	CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
HALF YEARLY	Chapter-1	Introduction to Artificial Intelligence (AI)	15
	Chapter-2	AI project cycle.	15
	Chapter-6	Natural language processing	10
	PART-A	<b>Employability Skills</b>	
	Chapter-4	Communication Skills	5
	Chapter-5	Self Management Skills.	5
		Total	50
PREBOARD EXAM	Chapter-1	Introduction to Artificial Intelligence (AI)	5
	Chapter-2	AI project cycle.	5
	Chapter-6	Natural language processing	15
	Chapter-7	Evaluation.	15
	PART-A	<b>Employability skills</b>	
	Chapter-1	Communication skills	2
	Chapter-2	Self Management skills	2
	Chapter-3	Basic ICT Skills	2
	Chapter-4	Entrepreneurial skills	2
	Chapter-5	Green Skills	2
		Total	50

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY**  
**SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**  
**CLASS - X**  
**SUBJECT : BIOLOGY**

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME AND TOPICS
MARCH	4 <sup>th</sup> and 5 <sup>th</sup>	01	<b>LIFE PROCESSES:</b> Introduction, <b>Nutrition:</b> Plant nutrition: mechanism of photosynthesis, Raw materials of photosynthesis: photoreceptors,
APRIL	2 <sup>nd</sup>	01	Raw materials of photosynthesis: CO <sub>2</sub> , sunlight, water, Heterotrophic nutrition: nutrition in unicellular organisms
	3 <sup>rd</sup>		Nutrition in human beings, Respiration: aerobic and anaerobic
	4 <sup>th</sup>		Respiratory surface, Respiration in human beings: human respiratory system, breathing mechanism and transportation of respiratory gases.
	5 <sup>th</sup>		<b>Transportation in animals:</b> circulatory system-human heart: Structure and working <b>Practical:</b> To prepare a temporary slide of leaf epidermis to study stomata. <b>Practicals:</b> To show that CO <sub>2</sub> , is released during respiration
MAY	1 <sup>st</sup> & 2 <sup>nd</sup>	01	circulation of blood, blood vessels, blood clotting, lymph
	3 <sup>rd</sup>		<b>Transportation in plants:</b> transportation of water and food in plants, <b>Excretion:</b> human excretory system,
	4 <sup>th</sup>		Structure and working of nephrons, haemodialysis <b>Excretion in plants</b> <b>CONTROL AND COORDINATION:</b> Nervous system (introduction), neurons
	5 <sup>th</sup>	07	<b>CONTROL AND COORDINATION:</b> <b>transmission of impulses, synapse,</b> Reflex action, Nervous system : central nervous system
JUNE	4 <sup>th</sup> & 5 <sup>th</sup>	07	Bain, Spinal cord, Peripheral nervous system,
JULY	1 <sup>st</sup> & 2 <sup>nd</sup>		Protection of CNS, Coordinated action. Coordination in plants: growth independent movement.
	3 <sup>rd</sup>		Coordination in plants: growth dependent movements (tropic movement; Need for Hormonal system, Plant Growth Hormones,
	4 <sup>th</sup>		Hormonal control : Hormonal control in animals, feedback mechanism
	5 <sup>th</sup>	07	<b>HOW DO ORGANISMS REPRODUCE?</b> Importance of reproduction, importance of DNA copying, variation and it's importance Asexual reproduction: fission, fragmentation, budding,

AUGUST	1 <sup>st</sup>		Asexual reproduction: regeneration, spore formation vegetative propagation. Sexual reproduction: importance, Sexual reproduction in flowering plants
	2 <sup>nd</sup>		Sexual reproduction in flowering plants (contd.) Reproduction in human beings. <b>Practical:</b> To study asexual reproduction using permanent slides. <b>Practical:</b> To study the features of dicot seed.
	3 <sup>rd</sup>		Reproduction in human beings(contd.) ,Reproductive health
	4 <sup>th</sup>		<b>HEREDITY AND VARIATIONS:</b> Accumulation of variations during reproduction, Heredity: inherited traits, Rules for inheritance of traits, monohybrid cross
SEPTEMBER	1 <sup>st</sup>		Monohybrid cross (contd.) Dihybrid cross, expression of traits Sex Determination,
	2 <sup>nd</sup>		<b>REVISION</b>
	3 <sup>rd</sup> and 4 <sup>th</sup>		<b>Half Yearly Examination</b>
	5 <sup>th</sup>		EVOLUTION : Natural selection and genetic drift Acquired and inherited traits;
OCTOBER	1 <sup>st</sup> ,2 <sup>nd</sup> and 3 <sup>rd</sup>	13	Speciation, Origin of life, Evolution and classification
	4 <sup>th</sup>		Tracing evolutionary relationship: Homologous organs, analogous organ, fossils , Evolution in stages,
	5 <sup>th</sup>		Evolution should not be equated with progress , Human evolution <b>OUR ENVIRONMENT</b> Biodegradable and non biodegradable wastes, ecosystem, Food chain, and food web
NOVEMBER	1 <sup>st</sup> ,2 <sup>nd</sup> &3 <sup>rd</sup>		Flow of energy ,10% law, Biological Magnification,, Ozone layer depletion, Managing the garbage we produce
	3 <sup>rd</sup>		<b>MANAGEMENT OF NATURAL RESOURCES</b> Natural Resources, Ganga Action Plan, 3R's of waste management, sustainable development, Need for management of natural, resources
	4 <sup>th</sup> &5 <sup>th</sup>		Management of Forest and wild life, Management of water, coal and petroleum.

#### LIST OF EXPERIMENTS :

1. To prepare a temporary slide of leaf epidermis to study stomata.
2. To show that CO<sub>2</sub> , is released during respiration
3. To study asexual reproduction using permanent slides
4. To study the features of dicot seed.

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

**CLASS- X**

**SUBJECT : BIOLOGY**

EXAM	CHAPTER NO.	NAME OF THE CHAPTER	MARKS WEIGHTAGE
1 <sup>st</sup> Periodic	06	Life processes	12M
	07	Control and coordination(upto Reflex action)	06M
		TOTAL	18M
Half Yearly	06	Life Processes	08
	07	Control and Coordination	10
	08	How do Organisms Reproduce?	10
		TOTAL	28M
1 <sup>st</sup> and 2 <sup>nd</sup> Pre-Board	06	Life processes	07
	07	Control and Coordination	05
	08	How do Organisms Reproduce?	07
	09	Heredity and Evolution	05
	15	Our environment	01
	16	Management of Natural Resources	03
		TOTAL	28M
Board Exam		Entire Syllabus	28M

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY**  
**SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**  
**CLASS - X**  
**SUBJECT : CHEMISTRY**

MONTH	WEEK	CHAPTER NO AND NAME	TOPICS
March	4 <sup>th</sup> & 5 <sup>th</sup>	CHAPTER – 01 CHEMICAL REACTIONS AND EQUATIONS	Chemical reaction, characteristics of chemical reactions, chemical equations, Writing and balancing chemical equations.
April	2 <sup>nd</sup>		types of chemical reaction- 1) combination reaction 2) decomposition reaction
	3 <sup>rd</sup>		3) displacement reaction 4) double displacement reaction 5) redox reaction
	4 <sup>th</sup>		Effects of oxidation reactions in everyday life- corrosion and rancidity, Exercise Questions
	5 <sup>th</sup>	CHAPTER – 2 ACID BASE AND SALT	Basic concepts of acid and base, indicator, reaction of acid and base with metals
May	1 <sup>st</sup>		Reaction of acid with metal carbonates and metal bicarbonates, reaction between acid and base, reaction of metal oxides with acid
	2 <sup>nd</sup>		Dilution of acid and base, pH, importance of pH in everyday life
	3 <sup>rd</sup>		Types of salts, common salt- Preparation, Properties and Uses of. NaOH, NaHCO <sub>3</sub> experiment number - 1
	4 <sup>th</sup>		Preparation, Properties and Uses of Na <sub>2</sub> CO <sub>3</sub> , bleaching powder, plaster of paris
June	4 <sup>th</sup> & 5 <sup>th</sup>	CHAPTER – 03 METALS AND NONMETALS	Introduction, physical properties of metals and non metals experiment number 2
July	1 <sup>st</sup> & 2 <sup>nd</sup>		Chemical properties of metals and nonmetals
	3 <sup>rd</sup>		Properties of ionic compounds, electron dot representation
	4 <sup>th</sup>		Occurrence of metals, extraction of metals, extraction of metals in low reactivity series, extraction of metal in middle reactivity series experiment number -3
	5 <sup>th</sup>		Extraction of metals in high reactivity series, refining of impure metals, corrosion and alloys

<b>August</b>	1 <sup>st</sup>		Corrosion and Alloys, Exercise Questions
	2 <sup>nd</sup>	CHAPTER-4, CARBON AND ITS COMPOUNDS	Introduction, covalent bonding in carbon compounds, allotropic forms of carbon, versatile nature of carbon
	3 <sup>rd</sup>		Functional groups, homologous series, experiment number -4
	4 <sup>th</sup> & 5 <sup>th</sup>		Nomenclature of carbon compounds
<b>September</b>	1 <sup>st</sup>		Chemical properties of carbon compounds (combustion, addition and substitution reaction)
	2 <sup>nd</sup>		Revision
	3 <sup>rd</sup> & 4 <sup>th</sup>		HALF YEARLY EXAM
	5 <sup>th</sup>		Important carbon compounds- Ethanol (physical and chemical properties and its uses)
<b>October</b>	1 <sup>st</sup> & 2 <sup>nd</sup>		Ethanoic acid – physical, chemical
			properties and its uses
	4 <sup>th</sup>		Soaps and detergents experiment number -5, exercise Questions
	5 <sup>th</sup>	CHAPTER – 05 PERIODIC CLASSIFICATION OF ELEMENTS	Introduction, early attempts at classification of elements- Dobereiner's triads, Newland's law of octaves
<b>November</b>	1 <sup>st</sup> & 2 <sup>nd</sup>		Mendeleev's periodic table (characteristic features, merits and limitations)
	3 <sup>rd</sup>		Morden periodictable, Features, Merits and Demerits
	4 <sup>th</sup> & 5 <sup>th</sup>		Periodic properties characteristics of periods Characteristics of groups, Exercise Questions

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

<b>EXAM</b>	<b>CHAPTER NUMBER</b>	<b>NAME OF THE CHAPTER</b>	<b>CHAPTER WISE WEIGHTAGE</b>
1 <sup>st</sup> PERIODIC TEST	01	* Chemical Reactions and Equations	8
	02	* Acids Bases and Salts	8
2 <sup>nd</sup> PERIODIC TEST	01	* Chemical Reactions and Equations	6
	02	* Acids Bases and Salts	8
	03	* Metals and Non-Metals	11

3 <sup>rd</sup> PERIODIC TEST	04	* Carbon and its compounds	10
	05	* The periodic classification of elements	6
1 <sup>st</sup> PREBOARD	01	● Chemical reactions and equations	3
	02	● Acids, Bases and Salts	5
	03	● Metals and Non-Metals	5
	04	● Carbon and its compounds	7
	05	● The periodic classification of elements	5
2 <sup>nd</sup> PREBOARD	01	* Chemical Reactions and Equations	3
	02	* Acids Bases and Salts	5
	03	* Metals and Non-Metals	5
			7
	04	* Carbon and its compounds	5
	05	* The periodic classification of elements	

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY**  
**SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**  
**CLASS - X**

**SUBJECT : ENGLISH (LANGUAGE AND LITERATURE) (184)**

MONTH	WEEK	CHAPTER / TOPIC
<b>MARCH</b>	04 (2 W.D)	Grammar - Tenses (Present, Past)
25 March- Sessionbegins	05 (3 W.D)	Grammar- Tense (Past andFuture) A Letter to God LR
<b>APRIL</b>	02 (6 W.D)	Modals Formal Letter ( Complaint, Inquiry) Nelson Mandela- Long walk to freedom LR
	03 (5 W.D)	Comprehension passage Dust of snow (Poem ) LR Fire and Ice (Poem ) LR
	04 (5 W.D)	A tiger in thezoo Two stories aboutflying LR
	05 (5 W.D)	A triumph of surgery The thief's story (SR )
<b>MAY</b>	01 (1 W.D)	Subject – Verb Agreement
	02 (6 W.D)	Grammar – Subject –Verb AEditing / Omission Gap filling / Note completion.
	03 (5 W.D)	Reported Speech Cloze Passage How to tell the wild animals The Ball Poem
	04 (6 W.D)	The Midnight Visitor SR A question of trust SR The Ball Poem
	05 (6 W.D)	From the diary of Anne Frank LR Amanda LR
<b>JUNE</b>	01 (1 W.D)	Writing--Letter writing (placing an order, letter totheEditor)
	02 and 03 Week	SUMMERS VACATION
	04 (4 W. D)	Writing and Analytical paragraph on the basis of given map/chart/report/line graph Active and Passive voice The Hundred Dresses part 1 LR
	05 (3 W. D)	The Hundred Dresses part 2 LRFootprints without feet SR
<b>JULY</b>	01 (3 W. D)	P T 1 Revision. Footprints without feet SR
	02 (6 W.D)	<b>PERIODIC TEST 1</b> Animals LR
	03 (6 W. D)	Glimpses of India LR A baker from Goa LR Coorg LR
	04 (5 W. D)	Tea from Assam LR Grammar – Determiners, unseen passage ( Practice ) The Trees LR
	05 (5 W.D)	The Making of a Scientist SRMijbil the Otter LR

<b>AUGUST</b>	01 (6 W. D)	Madam rides the bus LRFog LR Grammar: Determiners
	02 (6 W. D)	Grammar: Clauses Writing section: Analytical paragraph
	03 (4 W. D)	Writing a paragraph The tale of Custard the dragon (poem ) LR
	04 (6 W. D)	The Necklace SR Reporting – Commands, requests, questions, statements.
	05 (1 W. D)	Reported Speech
<b>SEPTEMBER</b>	01 and 02	H.Y Exam Revision.
	03 and 04	Half Yearly Examination
	05 (4 W. D)	The sermon at Banaras LR The Hack Driver SR
<b>OCTOBER</b>	01 (1 W. D)	The Hack Driver (Contd.)
	02 (6 W. D)	The Proposal LR Integrated Grammar Practice SR
	03 (1 W. D)	Writing Exercises.
	04 (5 W. D)	Bholi SR Practice of grammar topics / unseen passage
<b>NOVEMBER</b>	01 (2 W. D)	Writing Exercises
	02 (4 W. D)	Integrated grammar practice. Comprehension Passage
	03 (5 W. D)	For Anne Gregory Bholi (Contd.) SR
	04 (6 W. D)	The Book That Save The Earth
	30 Nov	Syllabus Completion.

**PERIODIC TEST 1 (05 JULY 2021) - Full Marks - 50**

**PORTION- LR- UNIT1, 2 and 3**

SR- L1, 2 and 3

- **20 Marks**

**READING** - Comprehension Passages

- **12 Marks**

**WRITING** - Formal Letter (Complaint and Inquiry)

- **8 Marks**

**GRAMMAR** - Tenses, Modals, Subject-Verb Agreement, Voice, Integrated grammar - **10 Marks**

**HALF YEARLY EXAM PORTION - Full Marks - 80**

**13 SEPTEMBER 2021** - **All the topics / chapters of PT1 and**

**. LR-** - **Unit 4, 5, 6 and 7.**

**SR-** - **Lessons 4, 5, 6 and 7.**

**LR + SR = 30 Marks**

**READING** - **Comprehension Passages**

**20 Marks**

**WRITING** - **Formal letter writing**

**20 Marks**

- **Analytical paragraph**

**GRAMMAR**

- **Gap filling**

**10 Marks**

- **Cloze Passage**

- **Editing / Omission**

- **Dialogue writing / Reporting a dialogue**

**Integrated grammar practice**

**PERIODIC TEST 2 (29 NOV 2021)**

**F.M. -50 Marks**

<b>PORTION- LR</b>	- <b>Unit 8 and 9</b>	
<b>SR</b>	- <b>Lessons 8 and 9</b>	<b>20 Marks</b>
<b>READING</b>	- <b>Comprehension passages</b>	<b>12 Marks</b>
<b>WRITING</b>	- <b>Formal letter, Analytical paragraph</b>	<b>8 Marks</b>
<b>GRAMMAR</b>	- <b>Gap filling</b>	<b>10 Marks</b>
	- Cloze Passage	
	- Editing / Omission	
	- Dialogue writing / Reporting a dialogue	
	- Integrated grammar practice	
	- Tenses, Modals, Subject-Verb Agreement, Voice, Integrated Grammar.	

**PRE BOARD EXAMINATION (4<sup>th</sup> JAN 2022) F.M. - 80**

**PORTION –ENTIRE SYLLABUS**

<b>READING</b>	- 20 Marks
<b>WRITING + GRAMMAR</b>	- 30 Marks
<b>LITERATURE</b>	- 30 Marks

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M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY  
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022

CLASS - X

SUBJECT : HINDI - COURSE - A

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME AND TOPICS
March	4 <sup>th</sup> 5 <sup>th</sup>	क्षितिज भाग- 02 मानक हिंदी व्याकरण- 10	10. नेताजी का चश्मा - कहानी रचना के आधार पर वाक्य
April	1 <sup>st</sup>	क्षितिज भाग- 02	01. उधौ तुम हौ अति- कविता
	2 <sup>nd</sup>	कृतिका भाग- 02	01. माता का ऑचल – कहानी
	3 <sup>rd</sup>	व्याकरण - 10	व्याकरण- वाच्य एवं परिभाषा एवं भेद
	4 <sup>th</sup>	क्षितिज भाग- 02	11. बाल गोबिन भगत
May	5 <sup>th</sup>	व्याकरण - 10	व्याकरण- विज्ञापन लेखन
	2 <sup>nd</sup>	कृतिका भाग- 02	02 जॉर्ज पंचम की नाक – कहानी
	3 <sup>rd</sup>	व्याकरण - 10	व्याकरण- पद परिचय
	4 <sup>th</sup>	क्षितिज भाग- 02 व्याकरण – 10	12 लखनवी अंदाज अनुच्छेद लेखन
June	5 <sup>th</sup>	क्षितिज भाग- 02	13 मानवीय करुणा की दिव्य चमक
	4 <sup>th</sup>	व्याकरण – 10	रस परिभाषा एवं भेद
July	5 <sup>th</sup>	क्षितिज भाग- 02	03 साना साना हाथ जोड़ि
	1 <sup>st</sup>	रचनात्मक कार्य व्याकरण –10	मौखिक अभिव्यक्ति एवं लेखन
	2 <sup>nd</sup>	क्षितिज भाग- 02	अपठित गद्यांश एवं काव्यांश
	3 <sup>rd</sup>	व्याकरण –10	05 उत्साह एवं अट नहीं रही है पत्र लेखन औपचारिक एवं अनौपचारिक
	4 <sup>th</sup>	क्षितिज भाग- 02	14 एक कहानी यह भी
August	5 <sup>th</sup>	क्षितिज भाग- 02	06 यह दंतुरित मुस्कान
	2 <sup>nd</sup>	क्षितिज भाग- 02	02 राम लक्ष्मण परशुराम संवाद
	3 <sup>rd</sup>	व्याकरण –10	पद परिचय
	4 <sup>th</sup>	क्षितिज भाग- 02	07 छाया मत छूना
September	5 <sup>th</sup>	व्याकरण – 10	विज्ञापन लेखन
	1 <sup>st</sup>	क्षितिज भाग- 02	08 कन्यादान
	2 <sup>nd</sup>	व्याकरण – 10	वाच्य परिभाषा व भेद
October	5 <sup>th</sup>	क्षितिज भाग- 02	16 नौबतखाने में इबादत वाक्य
	1 <sup>st</sup>	व्याकरण –10	पत्र लेखन औपचारिक एवं अनौपचारिक अपठित गद्यांश एवं
November	2 <sup>nd</sup>	व्याकरण –10 क्षितिज भाग- 02	काव्यांश 09 संगतकार
	1 <sup>st</sup>	व्याकरण –10	संदेश लेखन
	2 <sup>nd</sup>	व्याकरण –10	रस परिभाषा एवं भेद

## Details of Exam. :-

**1<sup>st</sup> 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

**Half Yearly :- सितंबर**

अंश- July, August, September

13 मानवीय करुणा रस अनुच्छेद लेखन

04 आत्मकथ्य 03 साना साना हाथ जोडि

अपठित गद्यांश एवं काव्यांश

05 उत्साह एवं अट नहीं रही है

पत्र लेखन 14 एक कहानी यह भी, विज्ञापन लेखन

06 यह दंतुरित मुस्कान

02 राम लक्ष्मण संवाद 07 छाया मत छूना

**Revision Test :- 1 नवंबर**

अंश-

06 यह दंतुरित मुस्कान 07 छाया मत छूना

पद परिचय , वाच्य 08 कन्यादान

16 नौबतखाने में इबादतु

09 संगतकार

**Revision Test :- 2 दिसंबर**

अंश-

01. उधौ तुम हौ अति 02 जॉर्ज पंचम की नाक 11. बाल गोबिन भगत

विज्ञापन लेखन पद परिचय , वाच्य

05 उत्साह एवं अट नहीं रही है

**Pre Board Exam :- जनवरी**

अंश- April to November

क्षितिज भाग - 02 कृतिका भाग - 02 संपूर्ण पाठ्यक्रम तथा व्याकरण – 10 का संपूर्ण पाठ्यक्रम ।

Marks Wheightage	
<b>For Periodic and Revision Test :</b>	<b>Marks</b>
खंड -क	05
खंड- ख	10
खंड- ग	25
खंड- घ	10
<b>कुल अंक</b>	<b>50</b>
<b>For Half Yearly and Pre Board</b>	<b>Marks</b>
खंड - क	10
खंड- ख	16
खंड - ग	34
खंड- घ	20
<b>कुल अंक</b>	<b>80</b>

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY**  
**SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**  
**CLASS - X**  
**SUBJECT : MATHEMATICS**

MONTH	CHAPTER NAME	WEEK	TOPICS
APRIL	REAL NUMBERS		Euclids division lemma, Fundamental theorem of arithmetic
		2 <sup>nd</sup>	Revisiting irrational numbers, Proof of Irrationality.
		3 <sup>rd</sup>	Decimal representation of rationals.
		4 <sup>th</sup>	Zeroes of a polynomial Relation between zeroes and coefficient. Division algorithm
	POLYNOMIALS	5 <sup>th</sup>	Division algorithm continued
MAY	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	1 <sup>st</sup>	Simultaneous linear equations : graphical solutions.
		2 <sup>nd</sup>	Simultaneous linear equations : Algebraic solutions
		3 <sup>rd</sup>	Word problems
	QUADRATIC EQUATIONS	4 <sup>th</sup>	Solution of quadratic equations by factorization
June	QUADRATIC EQUATIONS	4 <sup>th</sup>	quadratic formula
		5 <sup>th</sup>	quadratic formula
July	QUADRATIC EQUATIONS	1 <sup>st</sup>	Nature of roots
		2 <sup>nd</sup>	Word problems
	ARITHMETIC PROGRESSION	3 <sup>rd</sup>	Introduction of AP ,N th term of AP ,
		4 <sup>th</sup>	Sum of N terms of an AP
		5 <sup>th</sup>	Word problems
AUGUST	TRIANGLES	2 <sup>nd</sup>	similar figures BPT, ratio of areas theorem
		3 <sup>rd</sup>	Similarity criteria, Pythagoras theorem, converse of Pythagoras theorem
	COORDINATE GEOMETRY	4 <sup>th</sup>	distance formula, section formula
	CIRCLES	5 <sup>th</sup>	Area of triangles introduction of circles tangents to a circle
SEPTEMBER	TRIGONOMETRY,	1 <sup>st</sup>	Trigonometric ratios, ratio of specific angles, complementary angles ,trigonometric identities
	HEIGHTS AND DISTANCES	2 <sup>nd</sup>	Heights and distances Word problems
		3 <sup>rd</sup> & 4 <sup>th</sup>	Half yearly examination
	CONSTRUCTIONS	5 <sup>th</sup>	Construction of similar triangles, tangents to a circle,
OCTOBER	AREA RELATED TO CIRCLES	2 <sup>nd</sup>	Perimeter and area of a circle ,area of sector and segment
		4 <sup>th</sup>	Surface area and volume of combination figures
		5 <sup>th</sup>	Introduction of statistics

NOVEMBER	STATISTICS	1 <sup>st</sup>	Calculation of mean , Median
		2 <sup>nd</sup>	Calculation of missing frequency Calculation of mode
		3 <sup>rd</sup>	Frequency polygon Introduction of probability
		4 <sup>th</sup>	Probability continued

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

EXAM	CHAPTER NO	NAME OF CHAPTER	MARKS/WEIGHTAGE
1 <sup>ST</sup> PERIODIC	1	REAL NUMBERS	14
	2	POLYNOMIALS	12
	3	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	12
	4	QUADRATIC EQUATIONS	12
HALF YEARLY	1	REAL NUMBERS	8
	2	POLYNOMIALS	8
	3	PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	8
	4	QUADRATIC EQUATIONS	8
	5	ARITHMETIC PROGRESSION	12
	6	TRIANGLES	12
	7	CO-ORDINATE GEOMETRY	12
	8	INTRODUCTION TO TRIGONOMETRY	12
1 <sup>ST</sup> REVISION TEST	9	HEIGHT AND DISTANCE	7
	10	CIRCLES	6
	11	CONSTRUCTIONS	6
	12	AREA RELATED TO CIRCLES	8
	13	SURFACE AREA AND VOLUMES	9
	14	STATISTICS	9
	15	PROBABILITY	5
2 <sup>ND</sup> REVISION TEST		<b><i>SAME AS OF HALF YEARLY</i></b>	
PRE – BOARD	1-15		AS PER BOARD EXAM
ANNUAL BOARD	1-15		AS PER BOARD EXAM

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

**CLASS – X**  
**SUBJECT – PHYSICS**

MONTH	WEEK	CHAPTER NO. AND NAMES	TOPIC
MARCH	V	Ch 12 Electricity	Electric current and circuit, electric potential and potential difference, Ohm's law
APRIL	II		Factors on which resistance of a conductor depends, Resistivity,
	III		Resistance of a system of conductors, Resistance in series, Resistance in parallel
	IV		Numericals based on combination of resistors
	V		Heating effect of electric current, Practical application of heating effect of electrical current
MAY	II	Ch 13 Magnetic effect of electric current	Power, Numericals, Experiment-1
	III		Magnetic field and field lines, Magnetic field due to current carrying straight conductor, Right hand thumb rule, Magnetic field due to current carrying in a circular loop
	IV		Magnetic field due to a current in a solenoid, Electromagnetic and permanent magnets
	V		Force on a current carrying conductor in a magnetic field, electric motor
JUNE	IV	Ch 13 Magnetic effect of electric current	Electromagnetic induction, electric generator, Revision
	V		Experiment-II, Revision
JULY	I		Experiment-III, Revision
	II		Domestic circuit, Short circuiting, Earthing, overloading, Fuse
	III	Sources of energy	What is a good source of energy, Conventional sources of energy, Fossil fuel,
	IV		Thermal Power Plant, Hydropower plants, Improvements in technology for using conventional sources of energy, Geo thermal energy
	V		Solar energy



AUGUST	I		Energy from sea, Tidal energy, wave energy Oceanic thermal energy
	II		Nuclear energy, Environmental consequences, How long will energy sources last. Revision
	III IV	Ch-10 Light reflection and refraction of light	Reflection of light, Spherical Mirror, Revision Image formation by spherical mirrors, Representation of image formed by spherical mirror using ray diagrams., uses of mirrors
SEPTEMBER	I		Sign convention for reflection by spherical mirrors, Mirror formula, Revision,
	II		Numericals based on mirror formula
	III		Half yearly exam
	IV V		Experiment-4&5 Refraction of light, Refraction through a glass slab The refractive index, refraction by spherical lenses
OCTOBER	II		Image formation by lenses, Image formation in lenses using ray diagrams. Sign conventions for spherical lenses lens formula and magnification Numericals Power of a lens,
	IV V	Ch-11 Human eye and colourful world	Experiment 6 The human eye, Power of accommodation.
NOVEMBER	I & II	Ch-11 Human eye and colourful world	Defects of vision and their correction Refraction of light through prism,
	III		Dispersion of white light by a glass prism atmospheric refraction, Experiment-7
	IV & V		Scattering of light, Tyndall effect, Revision PT-2
DECEMBER	I II III IV		Revision Revision <b><u>1<sup>ST</sup>Preboard</u></b> <b><u>Revision</u></b>
JANUARY	II III IV V		2 <sup>nd</sup> preboard Revision Revision Revision

**PORTION OF EXAM WITH MARKS WEIGHTAGE (2021-2022)**

<b>Examination</b>	<b>Chapter No.</b>	<b>Chapter Name</b>	<b>Marks Weightage</b>
Periodic-I	Chapter12	Electric current & its effect	8
	Chapter13	Magnetic effect of electric Current( upto electric motor)	8
Half Yearly	Chapter12	Electric current and its effect	7
	Chapter13	Magnetic effect of electric Current	7
	Chapter14	Sources of energy	8
	Chapter-10	Light-Reflection and refraction of light( upto Mirror formula)	4
Periodic-II	Chapter12	Electric current and its effect	3
	Chapter13	Magnetic effect of electric Current	3
	Chapter14	Sources of energy	4
	Chapter-10	Light-Reflection and refraction of light	6
Pre-board I and Pre -board-II	Chapter-12	Electric current and its effect	7
	Chapter-13	Magnetic effect of current	6
	Chapter-14	Sources of Energy	2
	Chapter-10	Light-Reflection & Refraction of light	6
	Chapter-11	Human eye and colourful world	6

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY**  
**SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**  
**CLASS - X**  
**SUBJECT : SANSKRIT**

MONTH	WEEK	CHAPTER NO.	CHAPTER NAME AND TOPICS
March	3 <sup>rd</sup>	व्याकरणम् सन्धिः शेमुषी 2 पाठ 1	व्यंजन सन्धिः –तुकागमः ,मोऽनुस्वारः, वर्गीयप्रथमक्षराणां तृतीयवर्णे परिवर्तनम् शुचिपर्यावरणम्
April	2 <sup>nd</sup>	व्याकरणम् सन्धिः शेमुषी 2 पाठ 1 ( शेष )	व्यंजन सन्धिः – प्रथमवर्णस्य पंचमवर्णे परिवर्तनम् विसर्ग सन्धिः – विसर्गस्य उत्त्व , रत्व शुचिपर्यावरणम्
	3 <sup>rd</sup>	व्याकरणम् सन्धिः शेमुषी 2 पाठ 2	विसर्ग सन्धिः – विसर्गलोपः , विसर्गस्य स्थाने स् ,श् ,ष् बुद्धिर्बलवती सदा
	4 <sup>th</sup>	व्याकरणम् समास शेमुषी 2 पाठ 2 ( शेष )	विभक्ति तत्पुरुष समास बुद्धिर्बलवती सदा
	5 <sup>th</sup>	व्याकरणम् समास शेमुषी 2 पाठ 2 ( शेष )	विभक्ति तत्पुरुष समास बुद्धिर्बलवती सदा
May	1 <sup>st</sup>	व्याकरणम् समास शेमुषी 2 पाठ 3	समास– अव्ययीभाव व्यायामः सदा पथ्यः
	2 <sup>nd</sup>	व्याकरणम् समास– शेमुषी 2 पाठ 3 ( शेष )	समास– अव्ययीभाव व्यायामः सदा पथ्यः
	3 <sup>rd</sup>	व्याकरणम् समास– शेमुषी 2 पाठ 3 ( शेष )	द्वन्द्वः व्यायामः सदा पथ्यः
	4 <sup>th</sup>	व्याकरणम् समास– रचनात्मक कार्यम्	समास – बहुव्रीहि घटिका पत्र– लेखनम् अनुवादाः
June	4 <sup>th</sup>	व्याकरणम् अपठित रचनात्मक कार्यम्	अव्ययः अपठित गद्यांशम् चित्र – लेखनम् अनुच्छेद लेखनम्
	5 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 4 ( शेष )	प्रत्यय तद्धिताः– मतुप् शिशुलालनम्
July	1 <sup>st</sup>	शेमुषी 2 पाठ 4 ( शेष )	प्रत्यय –ठक् शिशुलालनम्
	2 <sup>nd</sup>	व्याकरणम् शेमुषी 2 पाठ 5	प्रत्यय त्व , तल् जननी तुल्यवत्सला
	3 <sup>rd</sup>	व्याकरणम् पाठ 5 ( शेष )	प्रत्यय टाप् , डीप् जननी तुल्यवत्सला

	4 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 6	वाच्य सुभाषितानि
	5 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 6 ( शेष )	वाच्य सुभाषितानि
August	1 <sup>st</sup>	व्याकरणम् शेमुषी 2 पाठ 7	वाच्य सौहार्द प्रकृतेः शोभा
	2 <sup>nd</sup>	व्याकरणम् शेमुषी 2 पाठ 7( शेष )	अशुद्धि-संशोधनम् सौहार्द प्रकृतेः शोभा
	3 <sup>rd</sup>	व्याकरणम् शेमुषी 2 ( शेष )	अशुद्धि-संशोधनम् सौहार्द प्रकृतेः शोभा
	4 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 8	सन्धि , समास ( पुनरावृत्ति ) विचित्रः साक्षी
September	1 <sup>st</sup>	व्याकरणम् शेमुषी 2 पाठ 8( शेष )	प्रत्यय , वाच्यः ( पुनरावृत्ति ) विचित्रः साक्षी
	2 <sup>nd</sup>	रचनात्मक कार्यम् शेमुषी 2 पाठ 1,2,3,4,5,6	चित्र-लेखनम् ,अनुच्छेद लेखनम् , अनुवादाः ( पुनरावृत्ति ) पुनरावृत्ति
		<b>परीक्षा</b>	
	5 <sup>th</sup>	शेमुषी 2 पाठ 9	सूक्तयः
October	1 <sup>st</sup>	व्याकरणम् शेमुषी 2 पाठ 9 (शेष)	वाच्य , घटिका ( पुनरावृत्ति ) सूक्तयः
	3 <sup>rd</sup>	व्याकरणम् शेमुषी 2 पाठ 11	अशुद्धि-संशोधनम् ( पुनरावृत्ति ) प्राणभ्योऽपि प्रियः सुहृत्
	4 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 11(शेष)	समास ( पुनरावृत्ति ) प्राणभ्योऽपि प्रियः सुहृत्
November	1 <sup>st</sup>	व्याकरणम् शेमुषी 2	सन्धि ( पुनरावृत्ति ) भूकम्पविभीषिका ( न परीक्षाकृते )
	2 <sup>nd</sup>	व्याकरणम् शेमुषी 2 पाठ 12	प्रत्यय ( पुनरावृत्ति ) अन्योक्त्यः( न परीक्षाकृते )
	3 <sup>rd</sup>	रचनात्मक कार्यम् शेमुषी 2 पाठ 12(शेष)	अनुवादाः अन्योक्त्यः( न परीक्षाकृते )
	4 <sup>th</sup>	व्याकरणम् शेमुषी 2 पाठ 1,2,3,4,5,6	वाच्य ( पुनरावृत्ति ) ( पुनरावृत्ति )
	5 <sup>th</sup>	शेमुषी 2 पाठ 7,8,9,11	( पुनरावृत्ति )

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

Exam	Chapter no	Name of chapter	Marks Weightage
	शेमुषी भाग 2		20
	पाठ 1	शुचिपर्यावरणम्	
	पाठ 2	बुद्धिर्बलवती सदा	
	पाठ 3	व्यायामः सदा पथ्यः	
	व्याकरणम्		

1st periodic		सन्धि: समांस अव्यय घटिका	10
	अपठित अवबोधनम् रचनात्मक-लेखनम्	अपठित गद्यांशम् पत्र-लेखनम् चित्र-लेखनम् अनुच्छेद-लेखनम् अनुवादाः	5 15
Half yearly exam	शेमुषी 2 पाठ 1 पाठ 2 पाठ 3 पाठ 4 पाठ 5 पाठ 6	शुचिपर्यावरणम् बुद्धिर्बलवती सदा व्यायामः सदा पथ्यः शिशुलालनम् जननी तुल्यवत्सला सुभाषितानि	30
	व्याकरणम्	सन्धि: समास अव्यय घटिका प्रत्यय वाच्य अशुद्धि-संशोधनम्	25
	अपठित अवबोधनम्	अपठित गद्यांशम्	10
	रचनात्मक-लेखनम्	पत्र-लेखनम् चित्र-लेखनम् अनुच्छेद-लेखनम् अनुवादाः	15
1 <sup>st</sup> Revision test	शेमुषी 2 पाठ 6 पाठ 7 पाठ 8 पाठ 9 पाठ 11	सुभाषितानि सौहार्द प्रकृतेः शोभा विचित्रः साक्षी सूक्तयः प्राणेभ्योऽपि प्रियः सुहृत्	20
	व्याकरणम्	प्रत्यय वाच्य अव्यय	10
	अपठित अवबोधनम्	अशुद्धि-संशोधनम् अपठित गद्यांशम्	5
	रचनात्मक-लेखनम्	पत्र-लेखनम् चित्र-लेखनम्	15

		अनुच्छेद—लेखनम् अनुवादा:	
2 <sup>nd</sup> Revision test	शेमुषी 2 पाठ 1 पाठ 2 पाठ 3 पाठ 4 पाठ 5 व्याकरणम्  अपठित अवबोधनम् रचनात्मक—लेखनम्	शुचिपर्यावरणम् बुद्धिर्बलवती सदा व्यायामः सदा पथ्यः शिशुलालनम् जननी तुल्यवत्सला सन्धिः समास घटिका प्रत्यय अपठित गद्यांशम् पत्र—लेखनम् चित्र—लेखनम् अनुच्छेद—लेखनम् अनुवादा:	20      10 5 15
Pre board exam	शेमुषी पाठ 1 पाठ 2 पाठ 3 पाठ 4 पाठ 5 पाठ 6 पाठ 7 पाठ 8 पाठ 9 पाठ 11  व्याकरणम्  अपठित अवबोधनम् रचनात्मक—लेखनम्	शुचिपर्यावरणम् बुद्धिर्बलवती सदा व्यायामः सदा पथ्यः शिशुलालनम् जननी तुल्यवत्सला सुभाषितानि सौहार्दं प्रकृतेः शोभा विचित्रः साक्षी सूक्तयः प्राणेभ्योऽपि प्रियः सुहृत्  सन्धिः समास अव्यय घटिका प्रत्यय वाच्य अशुद्धि—संशोधनम् अपठित गद्यांशम् पत्र—लेखनम् चित्र—लेखनम् अनुच्छेद—लेखनम् अनुवादा:	30            25  10 15

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

**SUBJECT – SOCIAL SCIENCE [POLITICAL SCIENCE AND GEOGRAPHY]**

Month	Week	Chapter No.	Chapter Name/Topic
March	4 <sup>th</sup>	1 - Political Science	Power Sharing & Federalism: Belgium & Srilanka, Majoritarianism in SriLanka Accommodation in Belgium, Forms of Power Sharing
	5 <sup>th</sup>	1 - Geography	<b>Resources and Development;</b> Types of Resources, Resources Planning
April	2 <sup>nd</sup>		Land as a resource, changing land-use pattern; Land degradation and conservation measures
	3 <sup>rd</sup>	2 - Geography	Soil as a Resource-soil types and distribution; Forest and Wild Life Resources
	4 <sup>th</sup>	3 - Geography	<b>Water Resources;</b> Sources, distribution, utilization, multi-purpose projects Water scarcity, need for conservation and management, Rainwater harvesting
	5 <sup>th</sup>	2 - Political Science	<b>Federalism:</b>
May	2 <sup>nd</sup>	2 - Political Science	What is Federalism? What makes India a Federal Country?
	3 <sup>rd</sup>		How is Federalism practiced? Decentralization in India
	4 <sup>th</sup>	3 - Political Science	<b>Democracy and Diversity;</b> A story from Mexico Olympics Differences ,Similarities, Division Politics of Social Division
	5 <sup>th</sup>	4 - Political Science	<b>Gender , Religion and Caste ;</b> Gender & Politics ,Religion, Communalism & Politics Caste & Politics
June	4 <sup>th</sup>	4 - Geography	<b>Agriculture :</b>
	5 <sup>th</sup>		Types of farming ,Cropping pattern Major Crops; technological and institutional reforms; Contribution of Agriculture to national economy – employment and output
July	1 <sup>st</sup>	Political Science	<b>Popular struggle and movements</b>
	2 <sup>nd</sup>	5 - Geography	<b>Minerals and Energy Resources ;</b>
	3 <sup>rd</sup>	5 - Geography	Types of minerals ,mode of occurrence of minerals Distribution(Note :on map only)use and economic importance of minerals, conservation
			Types of power resources: conventional and non- conventional, Conservation of Energy Resources
	4 <sup>th</sup>	6 - Political Science	<b>Political Parties</b>
5 <sup>th</sup>	Why do we need Political Parties? How many Parties should we have? National political parties/State political parties Challenges to Political parties, Reforms		

<b>August</b>	<b>2<sup>nd</sup></b>	<b>6 - Geography</b>	<b>Manufacturing Industries:</b>
	<b>3<sup>rd</sup></b>		Importance of Manufacturing, Contribution of industries to the national economy Classification of industries
	<b>4<sup>th</sup></b>		Agro-based industries, mineral based industries
	<b>5<sup>th</sup></b>		IT and Electronic industries, Industrial pollution and degradation of environment, Measure to control degradation
<b>September</b>	<b>1<sup>st</sup></b>	<b>7 - Geography</b>	<b>Life Line of National Economy:</b>
	<b>2<sup>nd</sup></b>		Importance of means of communication and transportation Trade & tourism
	<b>5<sup>th</sup></b>	7 - Political science	<b>Outcome of Democracy :</b>
			How do we assess Democracy? Accountable, Responsive and legitimate government, Economic growth and Development
<b>October</b>	<b>2<sup>nd</sup></b>		Reduction of inequality and poverty, Accommodation of social diversity, Dignity and freedom of citizens
	<b>4<sup>th</sup></b>	8-Political Science	<b>Challenges of democracy :</b>
			Thinking about challenge, different types of challenges, Thinking about reforms, redefining democracy

**PORTION OF EXAM WITH MARKS WEIGHTAGE (2021 – 2022)**

<b>EXAM</b>	<b>CHAPTER NO.</b>	<b>NAME OF CHAPTER</b>	<b>MARK WEIGHTAGE</b>
1 <sup>st</sup> Periodic Test	1-History	The Rise of Nationalism in Europe	13
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	7
	1-Geography	Resource And Development	7
	2-Geography	Forest & wild Life	2
	3-Geography	Water Resources	3
	1-Political Sc.	Power Sharing	6
	2-Political Sc.	Federalism	7
Half Yearly Examination	1-History	The Rise of Nationalism in Europe	10
	3-History	Nationalism in India	10
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	8
	3-Economics	Money And Credit	7
	1-Geography	Resource And Development	9
	3-Geography	Water Resources	1
	4-Geography	Agriculture	10
	1-Political Sc.	Power Sharing	4
	2-Political Sc.	Federalism	6
3-Political Sc.	Democracy And Diversity	4	



	4-Political Sc.	Gender, Religion And caste	6
2 <sup>nd</sup> PERIODIC TEST	5-History	The age of Industrialization	7
	7-History	Print Culture & the Modern World	6
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	7
	1-Geography	Resource And Development	6
	3-Geography	Water Resources	1
	4-Geography	Agriculture	6
	1-Political Sc.	Power Sharing	5
	2-Political Sc.	Federalism	6
	3-Political Sc.	Democracy And Diversity	1
PRE BOARD EXAMINATION	1-History	The Rise of Nationalism in Europe	6
	3-History	Nationalism in India	5
	5-History	The age of Industrialization	4
	7-History	Print Culture & the Modern World	5
	1-Economics	Development	4
	2-Economics	Sectors of The Indian Economy	5
	3-Economics	Money And Credit	5
	4-Economics	Globalisation And The Indian Economy	6
	1-Geography	Resource And Development	2
	3-Geography	Water Resources	1
	4-Geography	Agriculture	3
	5-Geography	Minerals And Energy Resources	4
	6-Geography	Manufacturing Industries	5
	7-Geography	Life Lines of National Economy	5
	1-Political Sc.	Power Sharing	3
	2-Political Sc.	Federalism	4
	4-Political Sc.	Gender, Religion And caste	5
	6-Political Sc.	Political Parties	5
7-Political Sc.	Outcomes of Democracy	3	

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

**SUBJECT – SOCIAL SCIENCES (HISTORY & ECONOMICS)**

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

<b>AUGUST</b>	<b>1</b>		Self- Help Groups
	<b>2</b>	<b>5-HISTORY</b>	<b>THE AGE OF INDUSTRIALIZATION</b> Proto Industrialization, Pace of Industrial Change
	<b>3</b>		Hand labour and Steam Power, Life of workers
	<b>4</b>		Industrialization in Colonies, Factories Come Up
<b>SEPTEMBER</b>	<b>1</b>		The Peculiarities of Industrial Growth, Market for Goods
	<b>2</b>	<b>REVISION</b>	
<b>OCTOBER</b>	<b>5</b>	<b>9-HISTORY</b>	<b>PRINT CULTURE AND THE MODERN WORLD</b> The First Printed Books, Print comes to Europe, The Print Revolution and its impact, The Reading Mania, The 19 <sup>th</sup> Century
	<b>1&amp;2</b>		India and the world of Prints, Religious Reforms and Public Debates
	<b>4</b>		Women and Print; Print and Censorship
	<b>5</b>		
	<b>NOVEMBER</b>		<b>1&amp;2</b>
<b>3</b>		Globalization, Factors that have enabled Globalization	
<b>4 &amp; 5</b>		WTO, Impact, Fair Globalization	

\* Chapter - 5 'Consumer Rights' to be done as project work.

**PORTION OF EXAMINATION WITH MARK WEIGHTAGE FOR YEAR 2021-202**

<b>EXAM</b>	<b>CHAPTER NO.</b>	<b>NAME OF CHAPTER</b>	<b>MARK WEIGHTAGE</b>
1 Periodic	1-History	The Rise of Nationalism in Europe	13
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	7
	1-Geography	Resource And Development	7
	2-Geography	Forest & wild Life	2
	3-Geography	Water Resources	3
	1-Political Sc.	Power Sharing	6
	2-Political Sc.	Federalism	7
Half Yearly	1-History	The Rise of Nationalism in Europe	10
	3-History	Nationalism in India	10
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	8
	3-Economics	Money And Credit	7
	1-Geography	Resource And Development	9
	3-Geography	Water Resources	1
	4-Geography	Agriculture	10
	1-Political Sc.	Power Sharing	4
	2-Political Sc.	Federalism	6
	3-Political Sc.	Democracy And Diversity	4
	4-Political Sc.	Gender, Religion And caste	6

2 PERIODIC	1-History	The Rise of Nationalism in Europe	7
	3-History	Nationalism in India	6
	1-Economics	Development	5
	2-Economics	Sectors of The Indian Economy	7
	1-Geography	Resource And Development	6
	3-Geography	Water Resources	1
	4-Geography	Agriculture	6
	1-Political Sc.	Power Sharing	3
	2-Political Sc.	Federalism	5
	3-Political Sc.	Democracy And Diversity	1
PRE BOARD EXAMINATION	1-History	The Rise of Nationalism in Europe	6
	3-History	Nationalism in India	5
	5-History	The age of Industrialism	4
	7-History	Print Culture & the Modern World	5
	1-Economics	Development	4
	2-Economics	Sectors of The Indian Economy	5
	3-Economics	Money And Credit	5
	4-Economics	Globalisation And The Indian Economy	6
	1-Geography	Resource And Development	2
	3-Geography	Water Resources	1
	4-Geography	Agriculture	3
	5-Geography	Minerals And Energy Resources	4
	6-Geography	Manufacturing Industries	5
	7-Geography	Life Lines of National Economy	5
	1-Political Sc.	Power Sharing	3
	2-Political Sc.	Federalism	4
	4-Political Sc.	Gender, Religion And caste	5
	6-Political Sc.	Political Parties	5
7-Political Sc.	Outcomes of Democracy	3	

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**M.G.M. HIGHER SECONDARY SCHOOL, B.S.CITY  
SYLLABUS BREAK-UP FOR THE YEAR : 2021 - 2022**

**CLASS - X**

**SUBJECT : INFORMATION TECHNOLOGY (402)**

MONTH	WEEK	CHAPTER/TOPIC
MARCH	4 <sup>TH</sup>	<b>PART – B-CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u></b> Styles in documents, Formatting windows, Fill format mode, Create new styles, Updating styles
	5 <sup>TH</sup>	<b>PART – B-CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u></b> Insert image/graphics, Insert scanned image, Inserting chart, Resize images, Crop image, Delete image, Positioning image
APRIL	1 <sup>ST</sup>	<b>PART-B-CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u></b> Template, Modifying default template, Using the template, Defining a Hierarchy of heading
	2 <sup>ND</sup>	<b>PART – B-CHAPTER 6: <u>ADVANCED DIGITAL DOCUMENTATION</u></b> Table of contents, Customizing a table, Mail merge, Print address label
	3 <sup>RD</sup>	<b>PART – A -CHAPTER 1: <u>COMMUNICATION SKILLS-II</u></b> Methods of communication, Communication cycle, Importance of feedback
	4 <sup>TH</sup>	<b>PART – A -CHAPTER 1: <u>COMMUNICATION SKILLS-II</u></b> Barriers in effective communication, Types of barrier, Measures to overcome barrier, Principles of effective communication, 7C's of communication
	5 <sup>TH</sup>	<b>PART – B-CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u></b> Consolidating data, Creating SUBTOTAL, What-If analysis, Goal seek, Solver
MAY	1 <sup>ST</sup>	<b>PART-B-CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u></b> Link data and spreadsheet, Cell referencing
	2 <sup>ND</sup>	<b>PART – B-CHAPTER 7: <u>ADVANCE FEATURES OF SPREADSHEET</u></b> Hyperlink, Sharing a document
	3 <sup>RD</sup>	<b>PART – B-CHAPTER 8: <u>MORE ABOUT SPREADSHEET</u></b> Recording changes, Add, Edit and format comment
	4 <sup>TH</sup>	<b>PART – B-CHAPTER 8: <u>MORE ABOUT SPREADSHEET</u></b> Reviewing changes, Macros, Arguments passed as values
JUNE	1 <sup>ST</sup>	<b>SUMMER VACATION</b>
	2 <sup>ND</sup>	<b>SUMMER VACATION</b>
	3 <sup>RD</sup>	<b>SUMMER VACATION</b>
	4 <sup>TH</sup>	<b>PART – A -CHAPTER 2: <u>SELF-MANAGEMENT-II</u></b> Self-management, Stress, How to manage stress?
	5 <sup>TH</sup>	<b>PART – A -CHAPTER 2: <u>SELF-MANAGEMENT-II</u></b> Working independently, Self- awareness, Self-motivation, Self-regulation.
JULY	1 <sup>ST</sup>	<b>PART – A -CHAPTER 3: <u>INFORMATION AND COMMUNICATION TECHNOLOGY-II</u></b> 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
	2 <sup>ND</sup>	<b>PART – A -CHAPTER 3: <u>INFORMATION AND COMMUNICATION TECHNOLOGY-II</u></b> Device driver, File system, File management, Creating new folder, Move a folder, Copy folder, Rename a folder, Delete folder, Restore folder, Properties of file

	3 <sup>RD</sup>	<b><u>PART – A -CHAPTER 3: INFORMATION AND COMMUNICATIONTECHNOLOGY-II</u></b> 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
	4 <sup>TH</sup>	<b><u>PART – B-CHAPTER 9: DATABASE MANAGEMENT</u></b> Database management system, Benefits of DBMS, Elements of a Database, RelationalDBMS, To begin with database packages
	5 <sup>TH</sup>	<b><u>PART – B-CHAPTER 9: DATABASE MANAGEMENT</u></b> Basic elements of base table, Creating a table, Create table by using wizard
<b>AUGUST</b>	1 <sup>ST</sup>	<b><u>PART – B-CHAPTER 9: DATABASE MANAGEMENT</u></b> Create table by create view, Entering data into a table, Forms, Reports
	2 <sup>ND</sup>	<b><u>PART – B-CHAPTER 9: DATABASE MANAGEMENT</u></b> Manipulating data, Create and Manage queries
	3 <sup>RD</sup>	<b><u>PART – B-CHAPTER 10: MORE ON DATABASE</u></b> DDL, DML, DCL, TCL
	4 <sup>TH</sup>	<b><u>PART – B-CHAPTER 10: MORE ON DATABASE</u></b> Database and operators, Data types, SQL operators
	5 <sup>TH</sup>	<b><u>PART –B-CHAPTER 10: MORE ON DATABASE</u></b> Create table, Managing query, Select, Insert, Update and Delete statement
<b>SEPTEMBER</b>	1 <sup>ST</sup>	<b><u>PART – A -CHAPTER 4: ENTREPRENEURSHIP-II</u></b> Introduction, Qualities of entrepreneurs, Function of entrepreneur, Importance of entrepreneur
	2 <sup>ND</sup>	<b><u>PART – A -CHAPTER 4: ENTREPRENEURSHIP-II</u></b> Myth about entrepreneurship, Entrepreneurship as a career option.
	3 <sup>RD</sup>	<b>HALF-YEARLY EXAMINATION</b>
	4 <sup>TH</sup>	<b>HALF-YEARLY EXAMINATION</b>
	5 <sup>TH</sup>	<b><u>PART – B-CHAPTER 11: WEB APPLICATION</u></b> Various types of impairment, Ease of access center in windows, Networking fundamentals, Benefits of networking, LAN, MAN, WAN, Network topology
<b>OCTOBER</b>	1 <sup>ST</sup>	<b><u>PART – B-CHAPTER 11: WEB APPLICATION</u></b> Internet, WWW, Features of WWW, Internet Terminology, HTML, Webpage, Web browser, Web address, DNS, Web servers, URL, ISP, Modem, IP address, Web portal
	2 <sup>ND</sup>	<b><u>PART – B-CHAPTER 11: WEB APPLICATION</u></b> Switch, HUB, Bridge, Router, Gateway, Hyperlink, Bandwidth, Internet connectivityoptions, Internet access through Wi-Fi, Data transfer on internet
	3 <sup>RD</sup>	<b>DUSHERA HOLIDAY</b>
	4 <sup>TH</sup>	<b><u>PART – B-CHAPTER 11: WEB APPLICATION</u></b> Instant messaging, Blog, Offline blog editor, Online transaction, Illustration of onlineshopping, e-Commerce, Commonly used application-e-learning, e-Governance, e-banking, UPI, Importance of secure password
	5 <sup>TH</sup>	<b><u>PART – B-CHAPTER 12: WEB SECURITY AND WORKPLACE SAFETY</u></b> Introduction to web/Internet security, Need of internet security, Cyber threat-malware,DoS attack, Man in the middle Attack, Spoofing, Phishing
<b>NOVEMBER</b>	1 <sup>ST</sup>	<b><u>PART – B-CHAPTER 12: WEB SECURITY AND WORKPLACE SAFETY</u></b> Best practices for web security, Health and safety at workplace, Fire safety measures,Falls and slips, Electrical shocks and its effects

2<sup>ND</sup>

**PART – B-CHAPTER 12: WEB SECURITY AND WORKPLACE SAFETY**

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

	3 <sup>RD</sup>	<b>PART – A -CHAPTER 5: GREEN SKILLS-II</b> Introduction to environment, Ecosystem, Natural & artificial environment, Natural resources.
	4 <sup>TH</sup>	<b>PART – A -CHAPTER 5: GREEN SKILLS-II</b> Sustainable development, Importance of sustainable development, Problems related to sustainable development.
	5 <sup>TH</sup>	<b>COMPLETION OF SYLLABUS</b>

**PORTION OF EXAM WITH MARKS WEIGHTAGE FOR YEAR 2021-2022**

<b><i>HALF-YEARLY EXAMINATION</i></b>		
<b>CHAPTER NO.</b>	<b>CHAPTER NAME</b>	<b>MARKS WEIGHTAGE</b>
<b>CHAPTER 1</b>	Communication Skills-II	5
<b>CHAPTER 2</b>	Self-Management-II	5
<b>CHAPTER 6</b>	Advanced Digital Documentation	15
<b>CHAPTER 7</b>	Advance Features Of Spreadsheet	15
<b>CHAPTER 8</b>	More About Spreadsheet	10
<b>TOTAL</b>		<b>50</b>
<b><i>PRE-BOARD EXAMINATION</i></b>		
<b>SECTIONS</b>	<b>UNITS</b>	<b>MAX. MARKS</b>
<b>PART-A</b>	<b>Employability Skills</b>	
	Communication Skills-II	<b>10</b>
	Self- Management Skills- II	
	Information and Communication Technology Skills- II	
	Entrepreneurial Skills-II	
Green Skills-II		
<b>PART-B</b>	<b>Subject Specific Skills</b>	
	Digital Documentation (Advanced)	<b>8</b>
	Electronic spreadsheet (Advanced)	<b>10</b>
	Database Management Sytem	<b>12</b>
	Web Applications and Security	<b>10</b>
<b>PART-C</b>	<b>Practical Work</b>	
	Practical Examination	<b>15</b>
	Written Test	<b>10</b>
	Viva Voce	<b>10</b>
<b>PART-D</b>	<b>Project work/ Field Visit</b>	
	Practical File/ Student Portfolio	<b>10</b>
	Viva Voce	<b>05</b>
<b>THEORY EXAMINATION (PART A + PART B)</b>		<b>50</b>
<b>PRACTICAL + PROJECT (PART C + PART D)</b>		<b>50</b>

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