



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

**CLASS - XII**

**SUBJECT : ACCOUNTANCY**

<b>Examination</b>	<b>Month</b>	<b>Week</b>	<b>Topics to be covered</b>
<b>Upto this portion First Quarterly</b>	<b>March and April</b>	<b>(full month)</b>	<p align="center"><b><u>UNIT 3: ACCOUNTING FOR COMPANIES</u></b></p> <p>a) Share &amp; Share Capital : Nature &amp; types            b) Issue &amp; allotment of equity share to public.            c) Under and Oversubscription            d) Issue at par and premium            e) Disclosure of Share Capital in the Balance Sheet            f) Issue for consideration other than cash            g) Private Placement and ESOP (Employee Stock Option Plan)            h) Accounting treatment for forfeiture and re-issue of shares            i) Right issue and Bonus issue</p> <p><b>Practical Classes for Accounting Software : Tally</b></p> <p>a) Introduction of the topics            b) Gateway of Tally</p>
	<b>June</b>	<b>1<sup>st</sup></b>	<p align="center"><b><u>UNIT 5: CASH FLOW STATEMENTS</u></b></p> <p>1. Cash Flow Statement : Meaning &amp; objectives</p>
		<b>2<sup>nd</sup></b>	<p>2. Preparation of Cash Flow Statement as per Accounting Standards 3 (revised). (Indirect Method)</p>
		<b>3<sup>rd</sup></b>	<p>3. Adjustments in Cash Flow Statements</p> <p>a) Depreciation : Normal method            Accumulated Depreciation method            b) Interest on Debentures/Public Deposits/Loans            c) Treatment of Interim and Proposed Dividend</p> <p><b>Practical Classes for Accounting Software : Tally</b></p> <p>c) Creation of Ledgers and Groups</p>
	<b>June</b>	<b>4<sup>th</sup></b>	<p align="center"><b><u>UNIT 2 : ACCOUNTING FOR PARTNERSHIP</u></b></p> <p><b><u>A) Fundamentals of Partnership</u></b></p> <p>1. Partnership : Features and Partnership deed</p>
	<b>July</b>	<b>1<sup>st</sup></b>	<p>2. Provisions of Indian Partnership Act 1932 in the absence of Partnership Deed.            3. Fixed Capital vs Fluctuating Capital accounts, Preparation of P&amp;L Appropriation Account.            4. Division of profits, Guarantee of profits.</p>
		<b>2<sup>nd</sup></b>	<p>5. Past adjustments relating to interest on capital, interest on drawings, salary and profit sharing ratio.</p>

<p><b>Upto this portion Half Yearly</b></p>	<p><b>August</b></p>	<p><b>3<sup>rd</sup></b></p>	<p>6. Goodwill: Nature, factors influencing, and methods of valuation of goodwill :</p> <ol style="list-style-type: none"> <li>a) Average Profit Method</li> <li>b) Super Profit Method</li> <li>c) Capitalisation Method</li> </ol> <p><b>Practical Classes for Accounting Software :</b> <b>Tally</b></p> <ol style="list-style-type: none"> <li>d) Preparation of types of Vouchers such as Receipts, Payments, Contra entries, Journal Proper, Purchase Registers, Sales Registers, Cash and Bank Books etc.</li> </ol>
		<p><b>4<sup>th</sup></b></p>	<p><b><u>B) Reconstitution of Partnership</u></b></p> <p><b>1. Change in Profit sharing ratio:</b></p> <ol style="list-style-type: none"> <li>a) Calculation of Gaining Ratio and Sacrificing Ratio</li> <li>b) Adjustment of Goodwill</li> <li>c) Revaluation of Assets and Liabilities</li> <li>d) Distribution of Accumulated Profits and losses</li> <li>e) Adjustment of Capital</li> </ol>
		<p><b>1<sup>st</sup></b></p>	<p><b>2. Admission of a Partner</b></p> <ol style="list-style-type: none"> <li>a) Calculation of Sacrificing Ratio</li> <li>b) Adjustment of Goodwill in Sacrificing Ratio</li> </ol>
		<p><b>2<sup>nd</sup></b></p>	<ol style="list-style-type: none"> <li>(i) When the new partner brings goodwill and it is retained</li> <li>(ii) When the new partner brings goodwill &amp; it is withdrawn from the business</li> </ol>
		<p><b>3<sup>rd</sup></b></p>	<ol style="list-style-type: none"> <li>(iii) When the new partner is not able to contribute towards his share of goodwill.</li> </ol>
		<p><b>4<sup>th</sup></b></p>	<ol style="list-style-type: none"> <li>c) Revaluation of Assets and Liabilities</li> <li>d) Distribution of Accumulated Profits and losses</li> <li>e) Adjustment of Capitals</li> <li>f)</li> </ol> <p><b>Practical Classes for Accounting Software :</b> <b>Tally</b></p> <ol style="list-style-type: none"> <li>e) Preparation of Trial Balance, Final Accounts, Creation and edit of Companies etc.</li> </ol>
	<p><b>September</b></p>	<p><b>1<sup>st</sup></b></p>	<p><b>3. Retirement of a Partner</b></p> <ol style="list-style-type: none"> <li>a) Calculation of Goodwill to Retiring partner</li> <li>b) Adjustment of Goodwill</li> </ol>
	<p><b>October</b></p>	<p><b>1<sup>st</sup></b></p>	<ol style="list-style-type: none"> <li>c) Revaluation of Assets and Liabilities</li> <li>d) Distribution of Accumulated Profits and losses</li> </ol>
		<p><b>2<sup>nd</sup></b></p>	<ol style="list-style-type: none"> <li>e) Adjustment of Capital</li> </ol>

	November	3 <sup>rd</sup>  4 <sup>th</sup>  1 <sup>st</sup>  2 <sup>nd</sup>	<p>f) Preparation of Retiring Partner's Loan Account</p> <p><b>4. Dissolution of Partnership</b></p> <p>a) Preparation of Realisation Account</p> <p>b) Preparation of Partners' Capital Accounts</p> <p>c) Journal entries related to Realisation</p> <p>d) Treatment of Internal liabilities</p> <p>e) Treatment of unrecorded assets and liabilities</p> <p>f) Preparation of Cash and Bank Account</p> <p style="text-align: center;"><b><u>UNIT 1 : ACCOUNTING FOR NOT FOR PROFIT ORGANIZATIONS</u></b></p> <p>a) Meaning and nature of Not-for-Profit Organizations</p> <p>b) Meaning and preparation of Receipts &amp; Payments Account</p> <p>c) Meaning and preparation of Income &amp; Expenditure Account</p> <p>d) Preparation of Balance Sheet of Not-for-Profit Organizations</p> <p>e) Fund based Accounting such as Building Fund etc.</p> <p>f) Treatment of Special items such as Sports Materials, Medicines, Stock of Stationery, Bats and Balls etc.</p> <p style="text-align: center;"><b><u>UNIT 4 : ANALYSIS OF FINANCIAL STATEMENTS</u></b></p> <p>a) Meaning and nature of Balance Sheet of a Company in the prescribed form with major headings and sub-headings as per Schedule VI to the Indian Companies Act 2013.</p> <p>b) Analysis of Financial Statements : Objectives and Limitations</p> <p>c) Tools for Analysis of Financial Statements :</p> <p style="padding-left: 20px;">i) Ratio Analysis</p> <p style="padding-left: 20px;">ii) Common Size Statements &amp; Comparative Statements</p> <p style="padding-left: 20px;">iii) Cash flow Statements</p> <p>d) Ratio Analysis : Types of Ratios - Liquidity ratios - Solvency ratios - Activity ratios - Profitability ratios</p> <p style="text-align: center;"><b><u>UNIT 3: ACCOUNTING FOR COMPANIES (Debentures)</u></b></p> <p>a) Debenture : Meaning and nature, types of debentures</p> <p>b) Issue of Debentures for Cash</p> <p>c) Issue of Debentures for consideration other than cash</p>
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<p><b>This topic is for II Quarterly</b></p>			<p>d) Issue of Debentures as Collateral Securities  e) Treatment of Interest on debentures  f) Redemption of Debentures : Treatment under Lumpsum method  g) Treatment of Discount on Issue of Debentures  h) Journal entries for Issue of debentures on the basis of redemption  <b>Practical Classes for Accounting Software : Tally</b>  f) Taking the prints of Vouchers, Trial Balance, Profit &amp; Loss Account Balance Sheet etc.</p>
<p><b>FOR PREBOARD THE ENTIRE SYLLABUS SHALL BE ASKED AS PER CBSE SCHEME 2022.</b></p>			

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

CBSE UNITS	Topics for Examinations
UNIT : 3 UNIT : 5	<u>SYLLABUS FOR FIRST QUARTERLY</u> Accounting for Companies (Share Capital) Cash flow Statements
UNIT : 3 UNIT : 5 UNIT : 2	<u>SYLLABUS FOR HALF YEARLY</u> Accounting for Companies (Share Capital) Cash flow Statements Accounting for Partnership Firms (Upto and including Admission of a Partner )
UNIT : 2 UNIT : 1 UNIT : 4 UNIT : 3	<u>SYLLABUS FOR SECOND QUARTERLY</u> Accounting for Partnership Firms (From Retirement of a Partner to Dissolution of Partnership) Accounting for Not-for-Profit Organizations Analysis of Financial Statements Accounting for Companies (Debentures)
	<u>SYLLABUS FOR PRE BOARD EXAMINATION</u> From Unit No.1 to Unit No.5

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

MONTH	WEEK	CHAPTER / TOPIC
March	4 <sup>TH</sup>	UNIT-1 Numbers, Quantification and Numerical Applications : <ul style="list-style-type: none"> <li>• Modulo Arithmetic</li> <li>• Congruence Modulo</li> <li>• Simple Arithmetic Functions</li> </ul>
	5 <sup>TH</sup>	Simple Arithmetic Functions
	1 <sup>ST</sup>	Allegation or Mixture
	2 <sup>ND</sup>	Allegation or Mixture Numerical problems on boats and streams, Partnership
	3 <sup>RD</sup>	<ul style="list-style-type: none"> <li>• Pipes and Cistern</li> <li>• Races and games</li> <li>• Scheduling</li> <li>• Numerical Inequalities</li> </ul>
	4 <sup>TH</sup>	UNIT-2 (ALGEBRA) <ul style="list-style-type: none"> <li>• Solution of Simultaneous linear equations using elimination method.</li> <li>• Matrices and types of matrices</li> </ul>
	5 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Algebra of Matrices</li> <li>• Determinants</li> </ul>
May	1 <sup>ST</sup>	<ul style="list-style-type: none"> <li>• Determinants</li> <li>• Inverse of a matrix</li> <li>• Cramer's rule and its application</li> </ul>
	2 <sup>ND</sup>	Simple applications of matrices and determinants including Leontiff input output Model for two Variables.
	3 <sup>RD</sup>	UNIT-3 (CALCULUS) <ul style="list-style-type: none"> <li>• Application of derivative</li> <li>• Increasing / Decreasing of functions</li> <li>• Maxima and Minima</li> </ul>
	4 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Marginal cost and marginal revenue using derivatives</li> </ul>
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>	<ul style="list-style-type: none"> <li>• Integration</li> <li>• Indefinite integral as family of curves</li> <li>• Definite integral as area under the curve</li> </ul>
	5 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Integration of Simple Algebraic functions</li> </ul>

<b>July</b>	1 <sup>ST</sup>	<ul style="list-style-type: none"> <li>• Integration of Simple Algebraic functions</li> </ul>
	2 <sup>ND</sup>	<b>PERIODIC TEST</b>
		Application of Integration ( Consumer surplus-producer surplus)
	3 <sup>RD</sup>	Differential equation
	4 <sup>TH</sup>	<p style="text-align: center;">UNIT-4 (PROBABILITY)</p> <ul style="list-style-type: none"> <li>• Probability Distribution</li> <li>• Mathematical Expectation</li> <li>• Variance</li> </ul>
5 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Binomial Distribution</li> <li>• Poisson Distribution</li> </ul>	
<b>August</b>	1 <sup>ST</sup>	<ul style="list-style-type: none"> <li>• Normal distribution</li> <li>• Basic applications and inferences</li> </ul>
	2 <sup>ND</sup>	<p style="text-align: center;">UNIT-5 (INFERENTIAL STATISTICS)</p> <ul style="list-style-type: none"> <li>• Population and Sample</li> <li>• Parameter, Statistic and Statistical inferences</li> </ul>
	3 <sup>RD</sup>	<ul style="list-style-type: none"> <li>• t-Test (one sample t-test and two independent groups t-test)</li> </ul>
	4 <sup>TH</sup>	<p style="text-align: center;">UNIT-6 (INDEX NUMBERS AND TIME-BASED DATA)</p> <ul style="list-style-type: none"> <li>• Index numbers, uses of index numbers</li> <li>• Construction of index numbers (simple and weighted)</li> <li>• Test of adequacy of index numbers (unit test and time reversal test)</li> </ul>
	5 <sup>TH</sup>	DO
<b>September</b>	1 <sup>ST</sup>	REVISION FOR H.E
	2 <sup>ND</sup>	DO
	3 <sup>RD</sup>	<b>HALF YEARLY EXAMINATION</b>
	4 <sup>TH</sup>	<b>HALF YEARLY EXAMINATION</b>
	5 <sup>th</sup>	<p style="text-align: center;">UNIT-6 (INDEX NUMBERS AND TIME-BASED DATA) contd.</p> <ul style="list-style-type: none"> <li>• Time series, Time series analysis for univariant data sets</li> <li>• Trend analysis</li> </ul>
<b>October</b>	1 <sup>ST</sup>	<p style="text-align: center;">UNIT-7 (FINANCIAL ARITHMATICS)</p> <ul style="list-style-type: none"> <li>• Perpetuity, Sinking funds</li> <li>• Valuation of Bonds</li> <li>• Calculation of EMI</li> </ul>
	2 <sup>ND</sup>	DO
	3 <sup>RD</sup>	<b>DUSHERA HOLIDAY</b>
	4 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Calculation of returns, nominal rate of return, effective rate of interest</li> </ul>
	5 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Compound annual growth rate</li> <li>• Stocks, shares and debentures</li> </ul>

<b>November</b>	1 <sup>ST</sup>	<ul style="list-style-type: none"> <li>• Stocks, Shares and debentures</li> <li>• Linear method of depreciation</li> </ul>
	2 <sup>ND</sup>	<b>UNIT-8 (LINEAR PROGRAMMING)</b> <ul style="list-style-type: none"> <li>• Introduction and related terminologies</li> <li>• Mathematical formulation of linear programming problems</li> </ul>
	3 <sup>RD</sup>	<ul style="list-style-type: none"> <li>• Different types of linear programming problems</li> <li>• Graphical method of solution for problems in two variables</li> </ul>
	4 <sup>TH</sup>	<ul style="list-style-type: none"> <li>• Feasible and Infeasible regions (bounded and unbounded)</li> <li>• Feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints)</li> </ul>
	5 <sup>TH</sup>	<b>COMPLETION OF SYLLABUS</b>

**PORTION FOR P.T. 1 (50 M)**

UNIT NO.	NAME OF THE UNIT	NAME OF THE CHAPTER	MARKS SPECIFIED
1	Numbers, Quantification and Numerical Applications	1.Modulo Arithmetic 2.Congruence Modulo 3.Simple Arithmetic Functions 4.Allegation 5.Numerical Problems on boats & Stream. Partnership, Pipes and cistern, races & games, Scheduling, Numerical Linequalities	15
2	Algebra	1.Matrices 2.Determinant 3.Cramer's rule & its Application 4.Simple application of matrices & dterminant including 'Leontiff Input Output' model for two variables	25
3	Calculus	1 A.O.D 2 Increasing and decreasing functions 3 Maxima & Minima	10

## **PORTION FOR HALF YEARLY EXAMINATION**

<b>UNIT NO.</b>	<b>NAME OF THE UNITS</b>	<b>MARKS SPECIFIED</b>
1	Numbers, Quantification and	11
2	Numerical applications	17
3	Algebra	25
4	Calculus	17
5	Probability	10
	Inferential Statistics	

## **PREBOARD EXAMINATION 'ENTIRE SYLLABUS'**

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**M.G.M HIGHER SECONDARY SCHOOL, BOKARO**  
**SYLLABUS BREAKUP FOR THE YEAR : 2021 - 2022**  
**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 3	Human Reproduction
	4th	Chapter 3	Human Reproduction
	5th	Chapter 4	Reproductive health
May	1 <sup>st</sup>	Chapter 5	Principles of heredity & Variation
	2 <sup>nd</sup>	Chapter 5	Principles of heredity & Variation
	3 <sup>rd</sup>	Chapter 5	Principles of heredity & Variation
	4 <sup>th</sup>	Chapter 6	Molecular basis of inheritance
June	4th	Chapter 6	Molecular basis of inheritance
	5th	Chapter 6	Molecular basis of inheritance
July	1st	Chapter 6	Molecular basis of inheritance
	2nd	Chapter 6	Molecular basis of inheritance
	3rd	Chapter 7	Evolution
	4th	Chapter 7	Evolution
	5th	Chapter 8	Health and diseases
August	1st	Chapter 8	Health and diseases
	2nd	Chapter 8	Health and diseases
	3rd	Chapter 9	Strategies in enhancement of food production:
	4th	Chapter 9	Strategies in enhancement of food production:
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 & 14	Organisms and environment and Ecosystem
	4th	Chapter 15 & 16	Biodiversity & Conservation and Environmental issues

**PORTION OF EXAM WITH MARK WEIGHTAGE FOR YEAR: 2021 -2022**  
**SUBJECT - BIOLOGY**

<b>Exam Weightage</b>	<b>CHAPTER NO.</b>	<b>CHAPTER NAME</b>	<b>Mark Weightage</b>
1 <sup>ST</sup> Periodic Test FM :50	1	Reproduction in living organisms	5
	2	Reproduction in flowering plants	15
	3	Human reproduction	10
	4	Reproductive health	10
	5	Principles of heredity & variation	10
Half yearly FM:70	1	as above	5
	2	Do	7
3	3	Do	7
10	4	Do	5
	5	do	11
	6	Do	15
	7	Evolution	8
	8	Health and diseases	6
	9	Strategies for enhancement	6
1 <sup>st</sup> Revision test F.M. 50	10	Microbes in Human Welfare	6
	11	As above	12
	12	Do	12
	13	Do	5
	14	Do	5
	15	Do	5
	16	Do	5
2 <sup>nd</sup> Revision Test F.M. 50	1	As above	3
	2	Do	6
	3	Do	6
	4	Do	4
	5	Do	8
	6	Do	8
	7	Do	6
	8	Do	6
	9	Do	3
Annual / Preboard 70	AS PER CBSE GUIDELINES		
	UNIT VI	Reproduction	14
	UNIT VII	Genetics and Evolution	18
	UNIT VIII	Biology in Human Welfare	14
	UNIT VIII	Biotechnology & ITS Applications	10
	UNIT IX	Ecology and Environment	14

**NOTE : CHAPTER WISE WEIGHTAGES ARE ONLY SUGGESTIVE**

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**M.G.M HIGHER SECONDARY SCHOOL, BOKARO**  
**SYLLABUS BREAKUP FOR THE YEAR : 2021 - 2022**  
**CLASS – XII**  
**SUBJECT – BUSINESS STUDIES (054)**

MONTH	WEEK	UNIT NO.	CHAPTER/TOPIC
<b>MARCH</b>	4 <sup>TH</sup>	1	<b>CHAPTER-1: Nature and Significance of Management</b> Management - concept, objectives, and importance
	5 <sup>TH</sup>	1	<b>CHAPTER-1: Nature and Significance of Management(Contd.)</b> Management as Science, Art and Profession Levels of Management Management functions-planning, organizing, staffing, directing and controlling Coordination- concept and importance
<b>APRIL</b>	1 <sup>ST</sup>	2	<b>CHAPTER-2: Principles of Management</b> Concept and Significance of Principle of Management
	2 <sup>ND</sup>	2	<b>CHAPTER-2: : Principles of Management(Contd.)</b> Fayol's principles of management Taylor's Scientific management- principles and techniques
	3 <sup>RD</sup>	3	<b>CHAPTER-3: Business Environment</b> Business Environment- concept and importance
	4 <sup>TH</sup>	3	<b>CHAPTER-3: Business Environment(Contd.)</b> Dimensions of Business Environment- Economic, Social, Technological, Political and Legal- Meaning and Components Demonetization - concept and features Impact of Government policy changes on business with special reference to Economic Reforms of 1991 liberalization, privatization and globalization in India
	5 <sup>TH</sup>	4	<b>CHAPTER-4: Planning</b> Concept, importance and limitation Planning process
<b>MAY</b>	1 <sup>ST</sup>	4	<b>CHAPTER-4: Planning(Contd.)</b> Types of Plan- Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme
	2 <sup>ND</sup>	5	<b>CHAPTER-5: Organising</b> Concept and importance
	3 <sup>RD</sup>	5	<b>CHAPTER-5: Organising</b> Organising Process Structure of organisation- functional and divisional concept- Suitability. Formal and informal organisation- concept
	4 <sup>TH</sup>	5	<b>CHAPTER-5: Organising</b> Delegation: concept, elements and importance Decentralization: concept and importance
<b>JUNE</b>	4 <sup>TH</sup>	6	<b>CHAPTER-6: Staffing</b> Concept and importance of staffing as a part of Human Resource Management concept
	5 <sup>TH</sup>	6	<b>CHAPTER-6: Staffing</b> Staffing process, Recruitment process

<b>JULY</b>	1 <sup>ST</sup>	6	<b>CHAPTER-6: Staffing</b> Selection – process Concept of Training & Development
	2 <sup>ND</sup>	6	<b>PERIODIC TEST-1</b> <b>CHAPTER-6: Staffing</b> <b>Importance of Training</b> <b>Methods of Training- On the Job and Off the Job- Vestibule, Apprenticeship Training and Internship Training</b>
	3 <sup>RD</sup>	7	<b>CHAPTER- 7: Directing</b> Concept and importance
	4 <sup>TH</sup>	7	<b>CHAPTER-7: Directing</b> Elements of Directing- Motivation - concept, Maslow’s hierarchy of needs
	5 <sup>TH</sup>	7	<b>CHAPTER-7: Directing</b> Financial and non-financial incentives- Supervision: Concept & Importance Leadership - concept, styles - authoritative, democratic and laissez faire
<b>AUGUST</b>	1 <sup>ST</sup>	7	<b>CHAPTER-7: Directing</b> Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers
	2 <sup>ND</sup>	8	<b>CHAPTER-8: Controlling</b> Controlling - Concept and importance
	3 <sup>RD</sup>	8	<b>CHAPTER-8: Controlling</b> Relationship between planning and controlling Steps in process of control
	4 <sup>TH</sup>	9	<b>CHAPTER- 9: Financial Management</b> Concept, role and objectives of Financial Management
	5 <sup>TH</sup>	9	<b>CHAPTER-9: Financial Management</b> Financial decisions: investment, financing and dividend- Meaning and factors affecting
<b>SEPTEMBER</b>	1 <sup>ST</sup>	9	<b>CHAPTER- 9: Financial Management</b> Financial Planning - concept and importance Capital Structure- Concept and factor affecting Capital Structure
	2 <sup>ND</sup>	9	<b>CHAPTER- 9: Financial Management</b> Fixed and Working Capital - Concept and factors affecting their requirements
	3 <sup>RD</sup>	<b>HALF YEARLY EXAMINATION</b>	
	4 <sup>TH</sup>	<b>HALF YEARLY EXAMINATION</b>	
	5 <sup>TH</sup>	10	<b>CHAPTER-10: Financial Markets</b> Financial Markets: Concept, Functions and types
<b>OCTOBER</b>	1 <sup>ST</sup>	10	<b>CHAPTER-10: Financial Markets</b> Money market and its instruments Capital market and its types (primary and secondary), methods of floatation in the primary market
	2 <sup>ND</sup>	10	<b>CHAPTER-10: Financial Markets</b> Stock Exchange – Meaning, Important terms, Functions and trading procedure Securities and Exchange Board of India (SEBI) - objectives and functions
	3 <sup>RD</sup>	<b>DUSHERA HOLIDAY</b>	

	4 <sup>TH</sup>	11	<b>CHAPTER-11: Marketing</b> Marketing – Concept, functions and philosophies Marketing Mix – Concept and elements
	<b>PROJECT GROUP DIVISION AND PROJECT TOPIC ALLOCATION</b>		
	5 <sup>TH</sup>	11	<b>CHAPTER-11: Marketing</b> Product – Meaning, Types-Dimension of Product Mix Concept – Product line, Mix width, Line length, depth, Mix Consistency -Elements of Product Mix: Branding, labelling and packaging – Concept & Importance
<b>NOVEMBER</b>	1 <sup>ST</sup>	11	<b>CHAPTER-11: Marketing</b> Price - Concept, Pricing Objectives, Pricing Strategy- Factors affecting determination of price Promotion – Concept and elements; Advertising, Personal Selling: Objectives
	2 <sup>ND</sup>	11	<b>CHAPTER-11: Marketing</b> Sales Promotion and Public Relations: Objectives, Comparison Physical Distribution – concept, components and channels of distribution- Factors affecting choice of Channel
	3 <sup>RD</sup>	12	<b>CHAPTER-1: Consumer Protection</b> Concept and importance of consumer protection Consumer Protection Act 1986: Provision relating to Meaning of consumer Rights and responsibilities of consumers, Who can file a complaint? Redressal machinery, Remedies available Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)
	4 <sup>TH</sup>	<b>REVISION</b>	
	5 <sup>TH</sup>	<b>PERIODIC TEST-2 COMPLETION OF SYLLABUS</b>	

**PORTION OF EXAM WITH MARKS WEIGHTAGE**  
**UNIT WISE DISTRIBUTION OF MARKS FOR THEORY/ PRACTICAL**

Units		Periods	Marks
<b>Part A</b>	<b>Principles and Functions of Management</b>		
1.	Nature and Significance of Management	12	16
2	Principles of Management	14	
3	Business Environment	12	
4	Planning	14	14
5	Organising	15	
6	Staffing	16	
7	Directing	15	
8	Controlling	12	20
	<b>Total</b>	<b>110</b>	
<b>Part B</b>	<b>Business Finance and Marketing</b>		
9	Financial Management	20	15
10	Financial Markets	18	
11	Marketing Management	30	15
12	Consumer Protection	12	
	<b>Total</b>	<b>80</b>	<b>30</b>
<b>Part C</b>	<b>Project Work (One)</b>	<b>30</b>	<b>20</b>

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

MONTH	WEEK	CHAPTER No.	CHAPTER/ TOPIC NAME
MARCH	4 <sup>th</sup>	1	The solid state, introduction, classification, space lattice, unit cell, types of unit cell, packing etc.
	5 <sup>th</sup>		Density of unit cell, crystal defect, properties of solids.
APRIL	1 <sup>st</sup>	2	Solutions - introduction, types, concentrations and its methods to express
	2 <sup>nd</sup>		Henry's law, applications , ideal & non - ideal solutions, Raoult's Law
	3 <sup>rd</sup> /4 <sup>th</sup>		Colligative Properties, Graphical methods, Van't Hoff Factor etc
	5 <sup>th</sup>	3	Electrochemistry- Introduction, Electrochemical cells, Nernst Equation and its application
MAY	1 <sup>st</sup>		Faraday's Laws of electrolysis, applications , conductivity and its types, applications
	2 <sup>nd</sup>		Cells and Batteries, Primary & Secondary, FuelCell, Electrochemical theory of Rusting of Iron
	3 <sup>rd</sup>	4	Chemical Kinetics, Introduction, Rate Law, Law of mass action order and Molecularity of reaction
	4 <sup>th</sup>		Pseudo First order reactions, Activation Energy, Threshold Energy, Arhenius Equation, Mechanism of reactions.
JUNE	5 <sup>th</sup> & 1 <sup>st</sup>	4	Chemical Kinetics to be completed
		5	Surface chemistry- Introduction, Adsorption, Absorbtion, Physisoption, chemisotion , Applications
	2 <sup>nd</sup>		Catalysis, types, Homogeneous and Heterogeneous Catalysis, Mechanism, Applications
JULY	1 <sup>st</sup>		The Colloidal state, types, properties, purification and application of Colloids.
	2 <sup>nd</sup>	6	Principal and process of extraction of elements, concentrartion, Metallurgy, Ellingham <b>diagram</b>
	3 <sup>rd</sup>		Purification, different types, Extraction, alloys, applications
	4 <sup>th</sup>	7	P - block elements, Introduction, Periodic Properties
	5 <sup>th</sup>		Gr.16, oxygen family, properties and uses
AUGUST	1 <sup>st</sup>	7	Gr.17 and Gr. 18 elements, properties, periodic trend, compounds, uses. Compounds Cl. Hcl, oxo acids, xenon Compounds.
	2 <sup>nd</sup>	8	d and f block elements- Introduction, Periodic trend, properties, Physical and Chemical , oxides, Halides etc
	3 <sup>rd</sup>		Potassium permangnate, potassium dichromate, prepration, properties, structure of chromate and dichromate, Mangnate and permangnate, Lanthanoids and Actinoids.
	4 <sup>th</sup>	9	Coordination compounds- Introduction, Nomenclature and structure of Coordination compunds.

	5 <sup>th</sup>		Isomerism of Coordination compounds, structural and stereoisomerism, Bonding in Complexes, Bonding in Metal Carbonyls.
SEPTEMBER	1 <sup>st</sup>	10	Haloalkanes and <b>haloarenes</b> , Introduction, Nomenclature, Methods of preparations, Properties, uses
	2 <sup>nd</sup>		Haloarenes, directive influence, preparation, properties and uses. Poly halogenated compounds.
	3 <sup>rd</sup>	11	Alcohols, Phenols and ethers, introduction, methods of preparations, Nomenclature, structure, inter conversion etc.
	4 <sup>th</sup> / 5 <sup>th</sup>		Phenols and ethers, various name reactions, tests of alcohol, phenol and ethers.
OCTOBER	1 <sup>st</sup>	12	Aldehydes, Ketones and Carboxylic acids, all name reactions, tests for aldehydes and Ketones, Iodoform test.
	2 <sup>nd</sup> & 3 <sup>rd</sup>	13	Amines and diazonium salts- Introduction, methods of preparations, properties and uses, Diazonium salts, Diazotisation, conversions based on diazonium salts.
	4 <sup>th</sup> & 5 <sup>th</sup>	14	Biomolecules, carbohydrates, proteins, Amino acids, Nucleic acid, structure of carbohydrates, applications
NOVEMBER	1 <sup>st</sup>	15	Polymers, Classification of polymers, types, monomers of different types of polymers, free radical mechanism etc.
	2 <sup>nd</sup>	16	Chemistry in everyday life, types of drugs, their examples, types of detergents, cationic anionic and non-ionic detergents.

### PORTION OF EXAMS WITH MARKS WEIGHTAGE FOR THE YEAR 2021-2022

EXAM	CHAPTER No.	NAME OF CHAPTER	MARKS WEIGHTAGE
1 <sup>st</sup> periodic	1	Solutions	21
	2	Electrochemistry	19
	3	Chemical Kinetics	10
Half Yearly	1	Solutions	8
	2	Electrochemistry	8
	3	Chemical Kinetics	8
	4	Surface Chemistry	9
	5	Principle and Process of Extraction	7
	6	P block elements	9
	7	d & f block elements	8
	8	Co-ordination compounds	7
	9	Halo Alkanes and <b>Haloarenes</b>	6
2 <sup>nd</sup> Periodic Test	10	Alcohol, Phenols and Ethers	10
	11	Aldehydes, Ketones and Carboxylic acids	9
	12	Amines and diazonium salts	8
	13	Biomolecules	8
	14	Polymers	8
	15	Chemistry in everyday life	7
<b>2nd Revision Test Portion of Half Yearly Examination</b>			
Pre - Board Examination	<b>As per CBSE Board</b>		

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

MONTH	WEEK	CHAPTER NO.	TOPIC/TOPIC NAME
MARCH	4 <sup>th</sup> & 5 <sup>th</sup>	MACRO. Ch.-1	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)
		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	2nd	MACRO. Ch.-2	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
		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.-2	Concept of Domestic Income and National Income Methods of calculating National Income-Income method
		ECONOMIC DEV. Ch.-1	Indian economy on the eve of independence- Occupational Structure, Infrastructure.
	4th	MACRO. Ch.-2	Real and Nominal GDP. GDP and Welfare
ECONOMIC DEV. Ch.-2		Common goals of Five Year Plans: Long period and Short period goals.	
5th	MACRO. Ch.-3	Methods of calculating National Income - Value Added Method or Product method.	
	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	2 <sup>nd</sup> -3 <sup>rd</sup>	MACRO. Ch.-3	Methods of calculating National Income-Expenditure method.
		ECONOMIC DEV. Ch.-3	Policies of agriculture (institutional aspects and new agricultural strategy, etc.)
	4 <sup>th</sup> -5 <sup>th</sup>	MACRO. Ch.-3	Methods of calculating National Income -Expenditure method continued..
		ECONOMIC DEV. Ch.-4	Strategy of Industrial Growth- industry (industrial licensing, etc.)
	ECONOMIC DEV. Ch.-5	India's Foreign trade.	
4 <sup>th</sup>	MACRO. Ch.- 4	Precautions Under National Income calculation under Value, Income & Expenditure method.	
	ECONOMIC DEV. Ch.-6	Economic Reforms since 1991:  Need and main features of liberalisation, globalization.	
5 <sup>th</sup>	MACRO. Ch.-4	<b>National Income:</b> Classification of Economy- 2 sector,3 sector & 4 sector economy Concept of Depreciation- Expected & Unexpected Obsolescence	
	ECONOMIC DEV. Ch.-6	Need and main features of Privatization; An appraisal of LPG policies.	
JULY	1 <sup>st</sup>	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.-7	Unit 2: Current challenges facing Indian Economy:  Poverty - Absolute and Relative Poverty.
	2 <sup>nd</sup>	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.-7		Poverty - Main Programmes for poverty alleviation: A critical assessment.	
3 <sup>rd</sup>	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.-8	Human Capital Formation: How people become resource; Role of human capital in Economic development.
	4 <sup>th</sup>	MACRO. Ch.-6 ECONOMIC DEV. Ch.-8	Unit 6: Determination of Income and Employment Aggregate demand and its components. Human Capital Formation: Growth of Education Sector in India.
	5 <sup>th</sup>	MACRO. Ch.-6 ECONOMIC DEV. Ch.-9	Propensity to consume and propensity to save (average and marginal). Rural development: Key issues - credit and marketing - role of cooperatives
AUGUST	1 <sup>st</sup> -2 <sup>nd</sup>	MACRO. Ch.-7 ECONOMIC DEV. Ch.-9	Meaning of full employment and involuntary unemployment. Agricultural diversification; alternative farming. Organic farming.
	3 <sup>rd</sup>	MACRO. Ch.-7 ECONOMIC DEV. Ch.-10	Concept of Autonomous Consumption, C and S function graphs and their numerical Employment: Formal and informal, Growth and other issues: Problems and policies.
	4 <sup>th</sup>	MACRO. Ch.-8 ECONOMIC DEV. Ch.-10	Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply. Inflation: Problems
	5 <sup>th</sup>		<b>Half Yearly Practical Examination</b>
SEPTEMBER	1 <sup>st</sup> -2 <sup>nd</sup>		Revision
	3 <sup>rd</sup> -4 <sup>th</sup>		Half Yearly Examination
	5 <sup>th</sup>	MACRO Ch-8 ECONOMIC DEV. Ch.-11	Concept of Investment multiplier, AS-AD and S=I approach for income determination Inflation: Policies
OCTOBER	1 <sup>st</sup>	MACRO. Ch.-9 ECONOMIC DEV. Ch.-12	Unit 7: Government Budget and the Economy Government budget - meaning, objectives. Balanced Budget & Unbalanced Budget Infrastructure: Meaning and Types: Case Studies: Energy and Health.

	2 <sup>nd</sup>	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.-12	Infrastructure: Problems and Policies- A critical assessment.
	4 <sup>th</sup>	MACRO. Ch.-10	<b>Foreign exchange rate</b> - meaning of fixed and flexible rates and managed floating, Determination of exchange rate in a free market, Appreciation and Depreciation of Domestic Currency
		ECONOMIC DEV. Ch.-13	Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming.
	5 <sup>th</sup>	MACRO. Ch.-10	<b>Foreign exchange rate-</b> Appreciation and Depreciation of Domestic Currency
		ECONOMIC DEV. Ch.-14	Unit 3: Development Experience of India:  A comparison with neighbours  India and Pakistan; India and China
NOVEMBER	2 <sup>nd</sup>	MACRO. Ch.-11	Balance of payments account - meaning and components: 1. Current A/C ( Visible trade) 2. Capital A/c ( Invisible trade) 3. Official Reserves A/c ( maintained by RBI)
		ECONOMIC DEV. Ch.-14	Issues: growth, population, sectoral development and other developmental indicators.
	3 <sup>rd</sup>	MACRO. Ch.-11	Balance of payments equilibrium & disequilibrium (Bop Surplus & Deficit)
	3 <sup>rd</sup>		Significance of Bop Data  <b>COMPLETION OF SYLLABUS</b>
DECEMBER	1 <sup>st</sup>		Second Periodic Test; <b>Pre Board Practical Examination</b>
	2 <sup>nd</sup>		PRE-BOARD

**PORTION OF EXAM WITH MARK WEIGHTAGE FOR YEAR: 2021 -2022**

EXAM	CHAPTER NO.	NAME OF CHAPTER	MARKS WEIGHTAGE
1 <sup>st</sup> Periodic Test	Chapter-1	Some basic concepts of Macroeconomics.(Macro)	5
	Chapter-1	Indian Economy on the Eve of Independence. (Eco.dev.)	5
	Chapter-2	National Income and Related Aggregates.(Macro)	8
	Chapter-2	Five Year Plan in India- Goals and Achievements. (Eco.dev.)	5

	Chapter-3	Methods of Calculating National Income.(Macro)	12
	Chapter-3	Features, Problems and Policies of Agriculture. (Eco.dev.)	9
	Chapter-4	Strategy of Industrial Growth. (Eco.dev.)	6
HALF YEARLY	Chapter-1	Some basic concepts of Macroeconomics.(Macro)	3
	Chapter-1	Indian Economy on the Eve of Independence. (Eco.dev.)	3
	Chapter-2	National Income and Related Aggregates.(Macro)	4
	Chapter-2	Five Year Plan in India- Goals and Achievements. (Eco.dev.)	4
	Chapter-3	Methods of Calculating National Income.(Macro)	4+6(choice)
	Chapter-3	Features, Problems and Policies of Agriculture. (Eco.dev.)	1+3(choice)
	Chapter-4	Money and Supply of Money.(Macro)	8
	Chapter-4	Strategy of Industrial Growth. (Eco.dev.)	1+4(choice)
Chapter-5	Banking: Commercial and The Central Bank. (Macro)	2+4(choice)	
Chapter-5	India's Foreign Trade. (Eco.dev.)	4	
Chapter-6	Aggregate Demand and its Components. (Macro)	3(choice)+6	
Chapter-6	Economic Reforms Since 1991. (Eco.dev.)	6(choice)	
Chapter-7	Poverty. (Eco.dev.)	7	
Chapter-8	Human Capital Formation in India. (Eco.dev.)	7	
2 <sup>nd</sup> Periodic Test	Chapter-7	Short run Equilibrium Output. (Macro)	8
	Chapter-9	Rural Development. (Eco.dev.)	5
	Chapter-8	Problem of Deficit Demand and Excess Demand. (Macro)	7
	Chapter-10	Employment and Unemployment. (Eco.dev.)	7
	Chapter-9	Government Budget and The Economy. (Macro)	5
	Chapter-11	Inflation	8
Chapter-10	Foreign Exchange Rate. (Macro)	5	
Chapter-12	Infrastructure. (Eco.dev.)	5	
Pre- board	Chapter-1 to 11	Entire syllabus (Macroeconomics)	40
	Chapter-1 to 14	Entire syllabus (Indian Economic Development)	40

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

MONTH	WEEK	CHAPTER/TOPIC
MARCH	4 <sup>TH</sup>	The last lesson
	5 <sup>TH</sup>	The Lost Spring My mother at sixty six
APRIL	1 <sup>ST</sup>	Deep water
	2 <sup>ND</sup>	Ratrap
	3 <sup>RD</sup>	An elementary school classroom in a slum Invitation
	4 <sup>TH</sup>	Report writing
	5 <sup>TH</sup>	Invitation & Reply to Invitation
MAY	1 <sup>ST</sup>	Note Making Summary writing Letter writing
	2 <sup>ND</sup>	The Third Level
	3 <sup>RD</sup>	The Tiger King
	4 <sup>TH</sup>	Journey to The End Of The Earth Advertisement, Poster
JUNE	1 <sup>ST</sup>	SUMMER VACATION
	2 <sup>ND</sup>	SUMMER VACATION
	3 <sup>RD</sup>	SUMMER VACATION
	4 <sup>TH</sup>	Advertisement and Poster cont.
	5 <sup>TH</sup>	Indigo
JULY	1 <sup>ST</sup>	The Enemy
	2 <sup>ND</sup>	<b>PERIODIC TEST-1</b>
		The Enemy cont.
	3 <sup>RD</sup>	Should Wizard hit mommy
	4 <sup>TH</sup>	Advertisement, Article
	5 <sup>TH</sup>	Poets and Pancakes
AUGUST	1 <sup>ST</sup>	Poet and Pancakes cont.
	2 <sup>ND</sup>	Keeping Quiet
	3 <sup>RD</sup>	A Thing of beauty
	4 <sup>TH</sup>	A thing of beauty cont.
	5 <sup>TH</sup>	A Roadside stand
SEPTEMBER	1 <sup>ST</sup>	A Roadside Stand cont.
	2 <sup>ND</sup>	Revision
	3 <sup>RD</sup>	<b>HALF YEARLY EXAMINATION</b>
	4 <sup>TH</sup>	<b>HALF YEARLY EXAMINATION</b>
	5 <sup>TH</sup>	The Interview
OCTOBER	1 <sup>ST</sup>	The Interview cont.
	2 <sup>ND</sup>	Going Places
	3 <sup>RD</sup>	<b>DUSSEHRA HOLIDAY</b>
	4 <sup>TH</sup>	On the face of it
	5 <sup>TH</sup>	On the face of it cont.

<b>NOVEMBER</b>	<b>1<sup>ST</sup></b>	<b>Evans tries an O Level</b>
	<b>2<sup>ND</sup></b>	<b>Evans tries an O Level cont.</b>
	<b>3<sup>RD</sup></b>	<b>Memories of Childhood</b>
	<b>4<sup>TH</sup></b>	<b>Aunt Jennifer's Tigers</b>
	<b>5<sup>TH</sup></b>	<b>PERIODIC TEST-2 COMPLETION OF SYLLABUS</b>

**SYLLABUS-BREAK UP - YEAR 2021-2022**

<b>MARCH</b>	PROSE : 1. THE LAST LESSON 2. THE LOST SPRING POETRY : MY MOTHER AT 66 WRITING SECTION : REPORT WRITING
<b>APRIL</b>	FLAMINGO : - PROSE - 3 - DEEP WATER 4 - RATTRAPPOETRY – 1 - MY MOTHER AT 66 2 - AN ELEMENTARY SCHOOL CLASSROOM IN A SLUM WRITING SECTION - DRAFTING INVITATION
<b>MAY</b>	VISTAS -1 - THE THIRD LEVEL READING SECTION - NOTE MAKING, SUMMARY WRITING SECTION - LETTER WRITING
<b>JUNE</b>	VISTAS - 2 - THE TIGER KING 3 - JOURENY TO THE END OF THE EARTH WRITING SECTION - ADVERTISEMENT/POSTER
<b>JULY</b>	FLAMINGO- Ch-5 - INDIGO VISTAS: Ch - 4 - THE ENEMY Ch – 5 - SHOULD WIZARD HIT MOMMY WRITING - SECTION - ADVERTISEMENT/ ARTICLE
<b>AUGUST</b>	FLAMINGO Ch 6-POETS AND PANCAKES POEM – 3 - KEEPING QUITE POEM – 4 - A THING OF BEAUTY WRITING SECTION - LETTER WRITING
<b>SEPTEMBER</b>	FLAMINGO-POEM-5-A ROADSIDE STAND PROSE - THE INTERVIEW
<b>OCTOBER</b>	FLAMINGO - Ch - 8 GOING-PLACES Ch - 8 - MEMORIES OF CHILDHOOD VISTAS - ON THE FACE OF IT
<b>NOVEMBER</b>	VISTAS:- Ch - 7 - EVANS-TRIES AN O LEVEL POEM - AUNT JENNIFERS TIGERS

**PORTION OF EXAM — 2021- 2022**

**1st PERIODIC**

**FLAMINGO – PROSE-Ch-** 1) THE LAST LESSON  
2) LOST SPRING

**POETRY -** 1) MY MOTHER AT SIXTY SIX  
2) AN ELEMENTARY SCHOOL CLASSROOM IN A SLUM

**WRITING SECTION — INVITATION**  
**READING SECTION — NOTE MAKING**  
**VISTAS—Ch 1: THE THIRD LEVEL**

**HALF YEARLY**

**FLAMINGO -** (Ch-1, 2, 3, 4 from THE LAST LESSON ----- THE RATRRAP)

(POETRY-1, 2, 3, 4 from MY MOTHER AT SIXTY SIX --- A THING OF BEAUTY)

**VISTAS -** (-Ch-1, 2, 3, 4 from THE THIRD LEVEL ---- THE ENEMY)

**WRITING-SECTION -** POSTER, NOTICE, ADVERTISEMENT, LETTER, SPEECH, ARTICLE, REPORT Etc.

**READING SECTION -** NOTE MAKING, SUMMARY, COMPREHENSION

**REVISION TEST -1**

**FLAMINGO - PROSE-Ch** 5, 6, 7, 8

POEM-4, 5, 6

VISTAS-Ch-5, 6, 7, 8

**REVISION TEST -2**

**FLAMINGO - PROSE - Ch** - 1, 2, 3, 4

POEM - 1, 2, 3

VISTAS-Ch - 1, 2, 3, 4

**PRE-BOARD:** ENTIRE SYLLABUS

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

MONTH	WEEK	CHAPTER /TOPIC
March	4 <sup>th</sup>	Revision of the basics of Python covered in class XI
April	1 <sup>st</sup>	<b>Unit 1: Data Handling using Pandas and Data Visualization</b> Introduction to Python libraries- Pandas, Matplotlib Data structures in Pandas - Series and Data Frames
	2 <sup>nd</sup>	<b>Series:</b> Creation of Series from – ndarray,
	3 <sup>rd</sup>	<b>Series:</b> dictionary, scalar value ,mathematical operations;
	4 <sup>th</sup>	<b>Series:</b> Head and Tail functions; Selection, Indexing and Slicing.
	5 <sup>th</sup>	<b>Data Frames:</b> creation - from dictionary of Series, list of dictionaries
May	1 <sup>st</sup>	Text/CSV files; display
	2 <sup>nd</sup>	Text/CSV files ; iteration; <b>Operations on rows and columns:</b> add, select, delete, rename; Head and Tail functions;
	3 <sup>rd</sup>	Indexing using Labels, Boolean Indexing; Joining, Merging and Concatenation
	4 <sup>th</sup>	Importing/Exporting Data between CSV files and Data Frames
	5 <sup>th</sup>	<b>Data Visualization</b> Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph
June	1 <sup>st</sup>	<b>Data Visualization continued...</b>
	2 <sup>nd</sup>	Revision Database Query using SQL covered in class XI
July (5 <sup>th</sup> July 1 <sup>st</sup> Periodic Test )	1 <sup>st</sup>	Unit 2 :Database Query using SQL Math functions: POWER (), ROUND (), MOD ().
	2 <sup>nd</sup>	Text functions: UCASE () / UPPER (), LCASE ()/LOWER (), MID () / SUBSTRING () / SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().
	3 <sup>rd</sup>	Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().
	4 <sup>th</sup>	Unit 3: Introduction to Computer Networks Introduction to networks, Types of network: LAN, MAN, WAN.
	5 <sup>th</sup>	Network Devices: modem, hub, switch, repeater, router, gateway. Revision : <b>Operations on rows and columns:</b> add, select, delete, rename; Head and Tail functions;
August	1 <sup>st</sup>	7 Network Topologies: Star, Bus, Tree, Mesh. Revision of CSV file
	2 <sup>nd</sup>	<b>Unit 4: Societal Impacts</b> : Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR),
	3 <sup>rd</sup>	plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws,
	4 <sup>th</sup>	Revision of Network devices
September (Halfyearly 13 <sup>th</sup> to 25 <sup>th</sup> )	1 <sup>st</sup>	Revision of DataFrame and Series,
	2 <sup>nd</sup>	Revision Sql queries and Function
	3 <sup>rd</sup>	<b>HalfYearly</b>
	4 <sup>th</sup>	<b>HalfYearly</b>



	5 <sup>th</sup>	Data handling using Pandas – II Descriptive Statistics: max, min, count, sum, mean, median, mode, quartile, Standard deviation, variance..
October	1 <sup>st</sup>	<b>DataFrame operations:</b> Aggregation, group by, Sorting, Deleting and Renaming Index, Pivoting.
	2 <sup>nd</sup>	Handling missing values – dropping and filling. Importing/Exporting Data between MySQL database and Pandas
	3 <sup>rd</sup>	histogram, pie chart, frequency polygon, box plot and scatter plot. Customizing plots: color, style (dashed, dotted), width; adding label, title, and legend in plots.
	4 <sup>th</sup>	Introduction to Internet, URL, WWW and its applications- Web, email, Chat, VoIP. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.
	5 <sup>th</sup>	web server and hosting of a website. hacking, phishing, cyber bullying, overview of Indian IT Act.
November ( 2 <sup>nd</sup> periodic Test )	1 <sup>st</sup>	E-waste: hazards and management. Awareness about health concerns related to the usage of technology
	2 <sup>nd</sup>	<b>Unit 4: Societal Impacts :</b> Hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management.
	3 <sup>rd</sup>	<b>Unit 4: Societal Impacts :</b> Awareness about health concerns related to the usage of technology
	4 <sup>th</sup>	<b>Revision : DataFrame operations</b>
	5 <sup>th</sup>	<b>Revision : Data handling using Pandas</b>
December (Pre-Board 13 <sup>th</sup> Dec )	1 <sup>st</sup>	First Pre-Board
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
	4 <sup>th</sup>	
<b>January</b> ( 4 <sup>th</sup> Jan Second Periodic)	1 <sup>st</sup>	Second Pre-Board
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
	4 <sup>th</sup>	

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

**CLASS – XII**

**SUBJECT – INFORMATION TECHNOLOGY (Code-802)**

MONTH	WEEK	CHAPTER NO.	TOPIC/TOPIC NAME
MARCH	4 <sup>th</sup>	Introduction to IT subject class-12	Introduction to topics related to the subject. Curriculum prescribed by CBSE from the website, marks for theory and practical. All chapters in brief and its contents. Explanation of how practical has to be performed in SQL and Java (Netbeans). Project to be made/Case Study file. Practical File.
	5 <sup>th</sup>	Employability Skills	Communication Skills. Intro to PSSCIVE portal
APRIL	2 <sup>nd</sup>	UNIT-1	Introduction to <b>Database Concepts-RDBMS Tools</b> . Data and information, Examples, Database, Properties and Need of Database DBMS, DBMS environment. Characteristics of DBMS.
	3 <sup>rd</sup>	UNIT-1	User Types. Advantages and Limitations of DBMS.
	4 <sup>th</sup>	UNIT-1	RDBMS Model and Constraints. Introduction to SQL. Basic SQL commands used in tables.
	5 <sup>th</sup>	UNIT-1	Creating database, using it, creating tables for the database, defining data types, null values, and primary key for the tables.
MAY	1 <sup>st</sup>	UNIT-1	Drop table, naming constraints, alter table
	2 <sup>nd</sup>	UNIT-1	Insert command, update, delete, select commands. Using queries on tables created.
	3 <sup>rd</sup>	UNIT-1	Queries continued.
	4 <sup>th</sup>	UNIT-2	Introduction to - Operating Web
	5 <sup>th</sup>	UNIT-2	Web based Applications, Online reservation systems:- Airline, railway, Bus, hotel etc. Advantages of online reservation.
JUNE	4 <sup>th</sup>	UNIT-2	Online transactions, precautions to be taken while online transactions, using online reservation system, booking ticket online
	5 <sup>th</sup>	UNIT-2	e-governance, online shopping, online courses.
JULY	1 <sup>st</sup>	Employability Skills	Writing Skills using PSSCIVE portal. ICT skills (Spreadsheet).
	2 <sup>nd</sup>	<b>REVISION</b>	<b>REVISION FOR FIRST PERIODIC TEST</b>
	3 <sup>rd</sup>	UNIT-3	Introduction to Java programming
	4 <sup>th</sup>	UNIT-3	Java Language Elements
	5 <sup>th</sup>	Employability Skills	ICT skills (Presentation).
AUGUST	1 <sup>st</sup>	UNIT-3	Control Flow(Loops, Switch, If-Else)
	2 <sup>nd</sup>	UNIT-3	Operators, Array.
	3 <sup>rd</sup>	Employability Skills	Green Skills.
	4 <sup>th</sup>	Employability Skills	Entrepreneurship skills

SEPTEMBER	1 <sup>st</sup>	<b>REVISION</b>	<b>REVISION FOR HALF YEARLY EXAM</b>
	2 <sup>nd</sup>	<b>EXAM</b>	<b>Half Yearly Practical Examination</b>
	3 <sup>rd</sup>	<b>EXAM</b>	<b>HALF YEARLY EXAMINATION</b>
	4 <sup>th</sup>	UNIT-3	Basic functions on Array.(Searching/Sorting).
	5 <sup>th</sup>	UNIT-3	Arrays, String Manipulation(Functions on String)
OCTOBER	2 <sup>nd</sup>	UNIT-3	Methods/Functions.
	4 <sup>th</sup>	UNIT-3	Class Design, Assertions.
	5 <sup>th</sup>	UNIT-3	Exception Handling.
NOVEMBER	1 <sup>st</sup> -2 <sup>nd</sup>	UNIT-3	Threads , Wrapper Classes
	3 <sup>rd</sup>	UNIT-4	Work Integrated Learning IT – DMA- Identification of Potential Work Areas
	4 <sup>th</sup>	UNIT-4	Fields / Area where IT is used.
	5 <sup>th</sup>		Completion of syllabus
DECEMBER	1 <sup>st</sup>		REVISION
	2 <sup>nd</sup>		REVISION
	3 <sup>rd</sup>		PRE BOARD EXAMINATION
	4 <sup>th</sup>		PRE BOARD EXAMINATION
JANUARY	2 <sup>nd</sup>		PRE BOARD

**PORTION OF EXAM WITH MARKS WEIGHTAGE**

<b>EXAM</b>	<b>CHAPT ER NO.</b>	<b>NAME OF CHAPTER</b>	<b>MARKS WEIGHTAGE</b>
1 <sup>st</sup> Periodic	Unit-1	<b>Database Concepts-RDBMS Tools</b>	30
		Introduction, Basic concepts and definitions, Data and information with examples, Database and its properties, Need of Database. DBMS and DBMS environment. Characteristics of DBMS. User Types. Advantages and Limitations of DBMS.RDBMS Model and Constraints. Introduction to SQL. Basic SQL commands used in tables.	
	Unit-2	<b>Operating Web</b>	20
Web based Applications, Online reservation systems:-Airline, railway, Bus, hotel etc. Advantages of online reservation. Online transactions, precautions to be taken while online transactions, using online reservation system, booking ticket online, e-governance, online shopping, online courses.			
		<b>Employability Skills</b>	10
HALF YEARLY	Unit-1	<b>Database Concepts-RDBMS Tools</b>	20
	Unit-2	<b>Operating Web</b>	15
	Unit-3	<b>Fundamentals of Java programming</b>	15
		Introduction to Java, Object Oriented Programming, Java Language Elements, Operators, Control Flow,	
		<b>Employability Skills</b>	10
2 <sup>nd</sup> Periodic	Unit-1	<b>Database Concepts-RDBMS Tools</b>	10
	Unit-2	<b>Operating Web</b>	10

	Unit-3	<b>Fundamentals of Java programming</b>	20
		Array, Class Design. Array, Class Design, Exception Handling.	
	Unit-4	<b>Work Integrated Learning IT – DMA</b>	10
		<b>Employability Skills</b>	10
PRE-BOARD -1	Unit-1	<b>Database Concepts-RDBMS Tools</b>	10
	Unit-2	<b>Operating Web</b>	12
	Unit-3	<b>Fundamentals of Java programming</b>	20
	Unit-4	<b>Work Integrated Learning IT – DMA</b>	08
		<b>Employability Skills</b>	10
PRE-BOARD -2	Unit-1 to 4	<b>ENTIRE SYLLABUS (Same pattern of Pre-Board-1)</b>	60

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

**CLASS – XII**

**SUBJECT – MATHEMATICS ( 041)**

MONTH	WEEK	CHAPTER/TOPIC
MARCH	4 <sup>TH</sup>	<b>RELATION:</b> Types of relations: reflexive, symmetric, transitive. Equivalence relations, Types of relations, Equivalence classes.
	5 <sup>TH</sup>	<b>FUNCTIONS :</b> Functions Types of functions, Composite functions,
APRIL	1 <sup>ST</sup>	<b>INVERSE TRIGONOMETRIC FUNCTIONS:</b> Inverse of a Function, inverse trigonometric functions.
	2 <sup>ND</sup>	<b>INVERSE TRIGONOMETRIC FUNCTIONS:</b> Definition, domain, range, Principal value branch of inverse trigonometric functions, Graphs of inverse trigonometric functions. Elementary properties of Inverse trigonometric.
	3 <sup>RD</sup>	<b>MATRICES:</b> Types of matrices, Operation on matrices, Transpose of a matrix Elementary operations on Matrices (finding inverse of a matrix by elementary operations).
	4 <sup>TH</sup>	<b>DETERMINANTS:</b> Determinant of a square matrix (up to 3x3 Matrices), minors, Co. factors. Properties of determinants. Application of determinant to coordinate geometry.
	5 <sup>TH</sup>	<b>MATRICES:</b> Adjoint and inverse of matrix, Solving a system of Linear Equations by Matrix Method
MAY	1 <sup>ST</sup>	<b>CONTINUITY AND DIFFERENTIABILITY:</b> Continuity of a point, continuous functions.
	2 <sup>ND</sup>	<b>DIFFERENTIATION:</b> Chain rule, Derivatives of inverse trigonometric functions,
	3 <sup>RD</sup>	Derivative of implicit function, Derivatives of logarithmic and exponential functions. Derivatives of function in parametric form, Second order derivatives.
	4 <sup>TH</sup>	<b>APPLICATION OF DERIVATIVES:</b> Rolle's and Lagrange's Mean value theorem.
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>APPLICATION OF DERIVATIVES :</b> Errors and Approximation , Increasing/decreasing functions
	5 <sup>TH</sup>	<b>APPLICATION OF DERIVATIVES :</b> Tangents and Normal, Maxima & Minima
JULY	1 <sup>ST</sup>	<b>INDEFINITE INTEGRALS:</b> Integration as inverse process of differentiation, Integration by substitution,
	2 <sup>ND</sup>	<b>PERIODIC TEST-1</b> Evaluation of integrals of some special functions
	3 <sup>RD</sup>	Integration by partial fraction and by parts.
	4 <sup>TH</sup>	<b>DEFINITE INTEGRALS:</b> Basic properties of definite integrals and evaluation of definite integrals.
	5 <sup>TH</sup>	<b>APPLICATION OF INTEGRALS :</b> Application in finding the area under simple curves, especially lines, circle/parabola /ellipse(in standard form only )

<b>AUGUST</b>	1 <sup>ST</sup>	Area between any of the two above said curves. Definite integral as limit of a sum
	2 <sup>ND</sup>	<b>DIFFERENTIAL EQUATIONS</b> Formation of differential equation, Solution of differential equations, Variable separable method.
	3 <sup>RD</sup>	Solutions of homogeneous differential equations of first order and first degree.
	4 <sup>TH</sup>	Solutions of linear differential equation of the type:
	5 <sup>TH</sup>	<b>VECTOR :</b> 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).
<b>SEPTEMBER</b>	1 <sup>ST</sup>	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,
	2 <sup>ND</sup>	Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors, scalar triple product of vectors.
	3 <sup>RD</sup>	<b>HALF YEARLY EXAMINATION</b>
	4 <sup>TH</sup>	<b>HALF YEARLY EXAMINATION</b>
	5 <sup>TH</sup>	<b>THREEDIMENSIONAL GEOMETRY</b> <b>Straight line in space</b> (Cartesian equation and vector equation of a line, coplanar and skew lines,
<b>OCTOBER</b>	1 <sup>ST</sup>	<b>SHORTEST DISTANCE BETWEEN TWO LINES</b> Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines,
	2 <sup>ND</sup>	Shortest distance between two lines. Cartesian and vector equation of a plane.
	3 <sup>RD</sup>	<b>DUSHERA HOLIDAY</b>
	4 <sup>TH</sup>	Angle between (i) two lines, (ii) two planes, (iii) a line and a plane. Distance of a point from a plane.
	5 <sup>TH</sup>	<b>14. LINEAR PROGRAMMING :</b> Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems,
<b>DECEMBER</b>	1 <sup>ST</sup>	Mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, Feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
	2 <sup>ND</sup>	<b>15. PROBABILITY</b> Conditional probability, Multiplication theorem of probability ,
	3 <sup>RD</sup>	Bay's theorem, Random variable and
	4 <sup>TH</sup>	its probability distribution, Binomial distribution.
	5 <sup>TH</sup>	<b>PERIODIC TEST-2</b> <b>COMPLETION OF SYLLABUS</b>

### 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 : 2021 - 2022**

**CLASS – XII**

**SUBJECT – PHYSICAL EDUCATION**

Month	CHAPTER NO.	UNIT	WEEK	TOPIC/TOPIC NAME	
March	1	1	4 <sup>th</sup>	Planning in sports.(meaning and objectives of planning ,	
April				Various committees and its responsibilities.	
			1 <sup>st</sup>	Procedure to draw fixture (knockout and League tournament), intramural and extramural competition.	
			2 <sup>nd</sup>	Specific sports programmes.	
	2		3 <sup>rd</sup>	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.	
			4 <sup>th</sup>	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		5 <sup>th</sup>	YOGA and LIFESTYLE : Asans as preventive measures ,Obesity : Asana, procedure, benefits and contraindication for forvajrasana, padahastasana, trikonasana., Diabetes.	
May			1 <sup>st</sup>	Hypertension and back pain, procedure ,benefits and contraindication.	
			2 <sup>nd</sup>	Topic continued.... ,PHYSICAL EDUCATION AND SPORTS FOR CWSN(CHILDREN WITHSpecial NEED-DIVYANG) : Concept of disability, their causes and nature (cognitive, intellectual & physical disability)	
			3 <sup>rd</sup>	Revision, Advantages of physical activities children's with special needs..., strategies to make physical accessible for children with special needs.	
		5		4 <sup>th</sup>	CHILDREN& WOMEN IN SPORTS : Motor development and factors affecting, Exercise guidelines at different stages of growth development.,
			5 <sup>th</sup>	Advantage and disadvantages of weight training, concept and advantages of correct posture,	
June			1 <sup>st</sup>	Common postural deformities –spinal curvature, knock knees, bowleg, flat foot, round shoulder..., corrective measures for postural deformities.	
			2 <sup>nd</sup>	Sports participation of women in India, special consideration (menarche &menstrual dysfunction), Female athletes triad (oestoporosis, amenorrhoea, eating disorder).	

July	6		3 <sup>rd</sup>	<u>1<sup>st</sup> periodic, TEST AND MEASUREMENT IN SPORTS: Introduction, Motor fitness test ,50m standing start 600 m Run/Walk, Sit&amp; 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 )</u>
		3	4 <sup>th</sup>	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,
			5 <sup>th</sup>	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		1 <sup>st</sup>	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,
			2 <sup>nd</sup>	Sports Injuries : classification (soft tissue injuries, Bone and joint injuries, their causes, prevention and treatment, First Aid – aim and objectives.
	8		3 <sup>rd</sup>	Topic continued...., BIOMECHANICS & SPORTS : Meaning and Importance of Biomechanics in sports,
			4 <sup>th</sup>	Types of movements ( flexion, extension, abduction, adduction), Newton’s Law of motion and
				And it’s Application in sports, Friction & sports.
September			<u>1<sup>st</sup></u>	<u>Topic Continued</u>
			2 <sup>nd</sup>	Revision
			3 <sup>rd</sup>	Half Yearly Exam
			4 <sup>th</sup>	Half Yearly Exam
	9		5 <sup>th</sup>	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		1 <sup>st</sup>	TRAINING IN SPORTS : Introduction, Strength – Definition, types & methods to develop strength – Isometric ,Isotonic &Isokinetic,
			2 <sup>nd</sup>	Endurance – Definition ,types & methods to develop endurance – continuous, interval & fartlek training,



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

**Portion specified for first quarterly examination ( 5<sup>th</sup> July) :**

**Chapter No.**

1, 2 & 3.

**Name of the Chapter**

1. Planning in sports
2. Sports & Nutrition
3. Yoga & Lifestyle

**Portion specified for Half yearly examination (13<sup>th</sup> to 25<sup>th</sup> September) :**

**Chapter No.**

1 to 5

**Name of the Chapter**

1. Planning in sports
2. Sports & Nutrition
3. Yoga & Lifestyle
4. Physical Education and sports for CWSN
5. Children and women in sports

**Portion specified for 1<sup>st</sup> Pre-Board examination (13<sup>th</sup> December):**

**Chapter No.**

1 to 10

**Name of the Chapter**

Entire Syllabus

**Portion specified for 2<sup>nd</sup> Pre-Board examination (4<sup>th</sup> January):**

**Chapter No.**

1 to 10

**Name of the Chapter**

Entire Syllabus

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**M.G.M HIGHER SECONDARY SCHOOL, BOKARO**  
**SYLLABUS BREAKUP YEAR : 2021 - 2022**  
**CLASS – XII**  
**SUBJECT – PHYSICS**

MONTH	WEEK	UNIT	CHAPTER NAME AND TOPICS
MARCH	4 <sup>th</sup>	I	<b>Electrostatics</b> <b>Chapter - 1 : Electric Charges and Fields</b> Electric Charges; Conservation of charge, Coulomb's law –force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution .
APRIL	1 <sup>st</sup>		Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field.
	2 <sup>nd</sup>		Electric flux, statement of Gauss's theorem and its applications to find fields due to infinitely long straight wire, uniformly charged infinite plane sheet.
	3 <sup>rd</sup>		<b>Chapter -2: Electrostatic Potential and Capacitance</b> Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field.
	4 <sup>th</sup>		Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors, and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.  <b>EXP-1(Ohm's Law)+ Act-1</b>
MAY	1 <sup>st</sup>	II	<b>Current Electricity</b> <b>Chapter -3 : Current Electricity</b> Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics(Linear and nonlinear),electrical energy and power, electrical resistivity and conductivity; temperature dependence of resistance.
	2 <sup>nd</sup>		Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge (qualitative ideas only). Potentiometer-principle and its applications to measure potential difference and of comparing EMF of two cells; measurement of internal resistance of a cell (qualitative ideas only).  <b>Exp-2(Meter Bridge-SP Resistance)+ Act-2</b>
		III	<b>Magnetic Effects of Current and Magnetism</b> <b>Chapter -4 : Moving Charges and Magnetism</b>
	3 <sup>rd</sup>		Concept of magnetic field, Oersted's experiment. Biot-Savart law and its application to current carrying circular loops. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids(only qualitative treatment), force on a moving charge inform magnetic and electric fields.

MAY	4 <sup>th</sup>		Force on a current- carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.
JUNE	2 <sup>nd</sup> to 22 <sup>nd</sup> (June)		Summer vacation
	4 <sup>th</sup>		<b>Chapter -5 : Magnetism and Matter</b> Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron,
JULY	1 <sup>st</sup> & 2 <sup>nd</sup>		1st Periodic Test Bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements.  <b>Exp-3 (Meter Bridge series gr.) +Act-3</b>
	3 <sup>rd</sup>	IV	<b>Electromagnetic Induction and Alternating Currents</b> <b>Chapter -6 : Electromagnetic Induction</b> Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.  <b>Chapter -7 Alternating Currents</b>
	4 <sup>th</sup>		Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only),  <b>Exp-4(Meter Bridge parallel gr.) +Act-4</b> LCR series circuit, resonance; power in AC circuits. AC generator and transformer.  <b>Exp-5(Prism)+Act-5</b>
	1 <sup>st</sup>	V	<b>Electromagnetic Waves</b> <b>Chapter -8 : Electromagnetic Waves</b> Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only). Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.
AUGUST	2 <sup>nd</sup>	VI	<b>Optics</b> <b>Chapter -9 : Ray Optics and Optical</b> Ray Optics; Refraction of light, total internal reflection and its applications, optical fibres refraction at spherical surfaces,lenses,thin lens formula,lens formula, lens maker formula,magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.
	3 <sup>rd</sup>		Optical instruments: Microscopes and astronomical telescopes (reflecting and refraction) and their magnifying powers. <b>Exp-6(Optical bench-convex lens)+Act-6</b>
	4 <sup>th</sup>		<b>CHAPTER 10- Wave Optics</b> Wave optics: wavefront and Huygens principle, reflection and refraction of plane waves at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens principle.

SEPTEMBER	4 <sup>th</sup>	VII	<b>Dual Nature of Radiation and Matter</b> <b>Chapter - 11 : Dual Nature of Radiation and Matter</b> Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation particle nature of light <b>Exp-7(Optical bench-concave mirror)</b>
OCTOBER	2 <sup>nd</sup>	VIII	<b>Atoms and Nuclei</b> <b>Chapter - 12 : Atoms</b> Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.
	3 <sup>rd</sup>		<b>Chapter -13 : Nuclei</b> Composition and size of nucleus. Nuclear force Mass-energy relation, mass defect, nuclear fission, nuclear fusion. <b>Exp-8(Optical bench-convex lens with convex mirror)</b>
	4 <sup>th</sup>	IX	<b>Electronic Devices</b> <b>Chapter - 14 : Semiconductor Electronics : Materials, Devices and Simple Circuits.</b> Energy bands in conductors, semiconductors and insulators (qualitative ideas only);
NOVEMBER	1 <sup>st</sup>		Semiconductor diode-I-V characteristics in forward and reverse bias, diode as a rectifier;
	2 <sup>nd</sup>		Special purpose p-n junction diodes; LED , photodiode, solar cell. <b>Exp-9 and 10(PN Jn and Zener diode)</b>
	3 <sup>rd</sup> & 4 <sup>th</sup>		Revision For 2nd Periodic Test

**PORTION OF EXAM WITH MARKS WEIGHTAGE**

1 <sup>st</sup> Periodic Test (5 <sup>th</sup> July 2021)	Unit-1	Electrostatics	18m
	Unit-2	Current Electricity	14m
	Unit-3	Magnetic effect of current	18m
Half yearly Exam (13 <sup>th</sup> Sep - 25 <sup>th</sup> Sep. 2021)	Unit-I	Electrostatics	12m
	Unit-II	Current Electricity	10m
	Unit-III	Magnetic effect of current and	10m
	Unit-IV	magnetism	13m
	Unit-V	EMI and AC	04m
	Unit-VI	EM waves Optics (Ray +Waves)	21m
			<b>TOTAL = 70m</b>
2 <sup>nd</sup> Periodic Test (29 <sup>th</sup> Nov. 2021)	UNIT - VII	Dual Nature of Matter & Radiation	12m
	UNIT- VIII	Atoms & Nuclei	20m
	UNIT - IX	Electronics Devices	18m
			<b>TOTAL = 50M</b>

1 <sup>st</sup> Pre-Board (13 <sup>th</sup> December 2021)	Unit-I	Electrostatics Ch-1: Electric charges and fields Ch-2: Electrostatics potential and capacitance	
	Unit-II	Current Electricity Ch-3: Current Electricity	16m
	Unit-III	Magnetic Effects of current and magnetism Ch-4: Moving charges and magnetism Ch-5: Magnetism and Matter	_____
	Unit-IV	Electromagnetic Induction and Alternating current Ch-6: Electromagnetic Induction Ch-7: Alternating current	17m
	Unit-V	Electromagnetic waves Ch-8: Electromagnetic waves	_____
	Unit-VI	Optics Ch-9: Ray optics and optical Instruments Ch-10: Wave optics	18m
	Unit-VII	Dual Nature of Radiation and matter Ch-11: Dual nature of Radiation and matter	_____
	Unit-VIII	Atoms and Nuclei Ch-12: Atoms Ch-13: Nuclei	12m
	Unit-IX	Electronic Devices Ch-14: Semiconductor Electronics Materials Devices and simple circuit	_____
2 <sup>nd</sup> Pre-Board (4 <sup>th</sup> January)		As per Board pattern (Entire Syllabus)	07m
			TOTAL = 70m

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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	4 <sup>th</sup>	3	<b>CHAPTER-11: RELATIONAL DATABASES</b> Purpose of DBMS Database Concepts Relational Data Model The relational model terminology Brief history of My SQL
	5 <sup>th</sup>	3	<b>CHAPTER-11: RELATIONAL DATABASES</b> MySQL database system Starting MySQL MySQL and SQL
April	1 <sup>st</sup>	3	<b>CHAPTER-12: SIMPLE QUERIES IN SQL</b> General Concepts: Advantages of using SQL Some MySQL SQL elements SQL command syntax Making simple queries MySQL functions Aggregate functions
	2 <sup>nd</sup>	3	<b>CHAPTER-13: TABLE CREATION AND DATA MANIPULATION COMMANDS</b> Database in MySQL Creating tables Changing Data with DML commands More DDL commands
	3 <sup>rd</sup>	3	<b>CHAPTER-14: GROUPING RECORDS, JOINS IN SQL</b> Types of SQL function Grouping result- GROUP BY Joins
	4 <sup>th</sup>	3	<b>CHAPTER-15: INTERFACE PYTHON WITH MYSQL</b> Connecting SQL with Python Creating Database Connectivity Applications
	5 <sup>th</sup>	3	<b>CHAPTER-15: INTERFACE PYTHON WITH MYSQL</b> Parameterised quires Performing Insert and Update queries
May	1 <sup>st</sup>	1	<b>CHAPTER -1: PYTHON REVISION TOUR-I</b> Tokens Barebones of a Python Program Variables and Assignments Simple Input and Output Data Types
	2 <sup>nd</sup>	1	<b>CHAPTER -1: PYTHON REVISION TOUR-I</b> Mutable and Immutable types Statement flow control The if Condition Looping Statements

	3 <sup>rd</sup>	1	<b>CHAPTER -1: PYTHON REVISION TOUR-I</b> Jump Statements-break and continue More on Loops
	4 <sup>th</sup>	1	<b>CHAPTER -2: PYTHON REVISION TOUR-II</b> Strings in Python
<b>PROJECT GROUP DIVISION AND TOPIC ALLOCATION</b>			
June	1 <sup>st</sup>		<b>SUMMER VACATION</b>
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>	1	<b>CHAPTER -2: PYTHON REVISION TOUR-II</b> Lists in Python Tuples in Python
	5 <sup>th</sup>		<b>CHAPTER -2: PYTHON REVISION TOUR-II</b> Dictionaries in Python
July	1 <sup>st</sup>	1	<b>CHAPTER -2: PYTHON REVISION TOUR-II</b> Sorting Techniques
	2 <sup>nd</sup>	1	<b>PERIODIC TEST-1</b>
			<b>CHAPTER -3: WORKING WITH FUNCTION</b> Understanding Functions Defining Function in Python Flow of Execution in a Function call Passing Parameters Returning values from Function
	3 <sup>rd</sup>	1	<b>CHAPTER -3: WORKING WITH FUNCTION</b> Composition Scope of Variables Mutable /Immutable properties of passed data objects
	4 <sup>th</sup>	1	<b>CHAPTER-4: USING PYTHON LIBRARIES</b> What is Library? Importing Modules in a Python Program Using Python Standard Library Function and Modules
5 <sup>th</sup>	1	<b>CHAPTER-4: USING PYTHON LIBRARIES</b> Creating a Python Library	
August	1 <sup>st</sup>	1	<b>CHAPTER-5: FILE HANDLING</b> Need of Data files Opening and closing files Types of File Working with Text File
	2 <sup>nd</sup>	1	<b>CHAPTER-5: FILE HANDLING</b> Standard input, output and error streams Working with Binary File
	3 <sup>rd</sup>	1	<b>CHAPTER-5: FILE HANDLING</b> Working with CSV File
	4 <sup>th</sup>	1	<b>CHAPTER-6: RECURSION</b> Recursive Function How recursion works?
	5 <sup>th</sup>	1	<b>CHAPTER-6: RECURSION</b> Recursion in Python
September	1 <sup>st</sup>	1	<b>CHAPTER-6: RECURSION</b> Recursion Vs. Iteration
	2 <sup>nd</sup>	1	<b>CHAPTER-7: IDEA OF ALGORITHMIC EFFICIENCY</b> Computational Complexity Estimating Complexity of Algorithm

	3 <sup>rd</sup> & 4 <sup>th</sup>		<b>HALF YEARLY EXAMINATION</b>
	5 <sup>th</sup>	1	<b>CHAPTER-7: IDEA OF ALGORITHMIC EFFICIENCY</b> Best, average and worst case Complexity
<b>October</b>	1 <sup>st</sup>	1	<b>CHAPTER-8: DATA STRUCTURE-I: LINEAR LIST</b> Elementary Data Representation Types of Data Structure Operations on Data Structure
	2 <sup>nd</sup>	1	<b>CHAPTER-8: DATA STRUCTURE-I: LINEAR LIST</b> Nested/ Two dimensional lists in Python
	3 <sup>rd</sup>		<b>DUSHERA HOLIDAY</b>
	4 <sup>th</sup>	1	<b>CHAPTER-9: DATA STRUCTURE-II: STACKS AND QUEUES USING LISTS</b> Stacks
	5 <sup>th</sup>	1	<b>CHAPTER-9: DATA STRUCTURE-II: STACKS AND QUEUES USING LISTS</b> Queues
<b>November</b>	1 <sup>st</sup>	2	<b>CHAPTER-10: COMMUNICATION AND NETWORK CONCEPTS</b> Computer network-An introduction Types of network Evolution of Networking Switching Techniques Data Communication Terminologies
	2 <sup>nd</sup>	2	<b>CHAPTER-10: COMMUNICATION AND NETWORK CONCEPTS</b> Transmission Media Network Devices Network Topologies and Types
	3 <sup>rd</sup>	2	<b>CHAPTER-10: COMMUNICATION AND NETWORK CONCEPTS</b> Network Protocol Wireless / Mobile Computing Internetworking terms and concepts
	4 <sup>th</sup>	2	<b>CHAPTER-10: COMMUNICATION AND NETWORK CONCEPTS</b> Network Security Concepts Viruses E-commerce Payment Transactions using Online Banking
	5 <sup>th</sup>		<b>COMPLETION OF SYLLABUS</b>



**PORTION OF EXAM WITH MARK WEIGHTAGE**

EXAM	CHAPTER NO.	CHAPTER NAME	MARKS WEIGHTAGE
<b>1<sup>ST</sup> PERIODIC TEST</b>	<b>CHAPTER-11</b>	Relational Databases	6
	<b>CHAPTER-12</b>	Simple Queries In SQL	10
	<b>CHAPTER-13</b>	Table Creation And Data Manipulation Commands	6
	<b>CHAPTER-14</b>	Grouping Records, Joins in SQL	5
	<b>CHAPTER-15</b>	Interface Python With MySQL	6
	<b>CHAPTER -1</b>	Python Revision Tour-I	7
	<b>CHAPTER -2</b>	Python Revision Tour-II	10
<b>TOTAL</b>			<b>50</b>
<b>HALF-YEARLY EXAMINATION</b>	<b>CH-11-15 &amp; 1,2</b>	1 <sup>ST</sup> PERIODIC TEST CHAPTERS	25
	<b>CHAPTER -3</b>	Working With Function	10
	<b>CHAPTER-4</b>	Using Python Libraries	10
	<b>CHAPTER-5</b>	File Handling	12
	<b>CHAPTER-6</b>	Recursion	8
	<b>CHAPTER-7:</b>	Idea Of Algorithmic Efficiency (till Estimating Complexity of Algorithm)	5
<b>TOTAL</b>			<b>70</b>
<b>PRE-BOARD</b>	<b>UNIT-1</b>	Computational Thinking And Programming-2	40
	<b>UNIT-2</b>	Computer Networks	10
	<b>UNIT-3</b>	Database Management	20
<b>TOTAL</b>			<b>70</b>

**MARKS DISTRIBUTION FOR PRACTICAL**  
**EXAMINATION**

<b>S.NO.</b>	<b>AREA</b>	<b>MARKS</b>
<b>1</b>	<b>LAB TEST</b>  I. Pyth  II. on program (60% logic + 20% documentation + 20% code quality)  III. Small Python program that sends a SQL query to a database and displays the result.	<b>7</b>  <b>5</b>
<b>2</b>	<b>REPORT FILE</b>  Minimum 20 python programs. Out of this at least 4 programs should sendSQL commands to a data-base and retrieve the result.	<b>7</b>
<b>3</b>	<b>PROJECT</b>	<b>8</b>
<b>4</b>	<b>VIVA</b>	<b>3</b>
<b>TOTAL</b>		<b>30</b>

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