सत्यमेव जयते
Govt of Meghalaya

REVISED ADJUSTED ACADEMIC CALENDAR

FOR CLASSES IX-X

2020-21

Directorate of Educational Research and Training (DERT),
Education Department



REVISED ADJUSTED ACADEMIC CALENDAR FOR CLASSES IX – X

2020-21

Directorate of Educational Research and Training
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Shillong, Meghalaya 793011

Foreword

The State of Meghalaya has been facing tremendous challenges owing to the nationwide lockdown due to COVID-19 pandemic which has resulted in the closure of all educational institutions. This has led to learning losses among learners especially in the rural pockets of the State. As a result, the Education Department has given utmost priority to mitigate learning losses which can limit educational progress and learners transitioning from upper primary to secondary and from secondary to tertiary and higher education. To ensure continuous and minimum levels learning, the Directorate of Educational research & Training (DERT) developed the Adjusted Academic Calendar (AAC) for Classes IX – X in close consultation with schoolteachers and subject experts. The AAC may be implemented in all MBOSE schools of Meghalaya for the session 2020-21.

The Adjusted Academic Calendar was developed by Professional Learning Community (PLC) members comprising of school and college teachers from various institutions drawn from different districts of the State. A review of the MBOSE course content in different subject areas for classes IX to X was undertaken, with a focus on reducing the syllabi load and content by retaining only key essentials. All activities were undertaken under the guidance of the State Resource Group (SRG) comprising of distinguished school leaders, subject experts, teachers, teacher educators, curriculum developers and experienced educational administrators.

The Adjusted Academic Calendar for secondary level focuses distinctly on core competencies, concepts and knowledge areas in the various subjects covered in Classes IX and X, including Modern Indian Languages (MIL). However, strategies for teaching have not been incorporated in the document. It is recommended that the Alternative Academic Calendar for the secondary level brought out by NCERT may be referred to for model instructional activities.

Schools and teachers are to use this document to prepare for students' continuous learning through unit and lesson planning, communicating with parents all lesson targets, planning activities for Project Based Learning (PBL), online lessons, offline learning, developing reading materials, and other learning resources.

This document is an outcome of the collaborative efforts of the specially constituted State Resource Group (SRG), the DERT Task Team, school, and college teachers from across the State. In view of this, I am hopeful that schools will be able roll out teaching - learning activities with a view to mitigate learning losses and ensure minimum levels of learning during these challenging times.



Shri D.P. Wahlang (IAS),
Principal Secretary,
Government of Meghalaya,
Education Department.

Dated: Shillong, 21 August 2020

Acknowledgement

I would like to place on record my sincere gratitude to all the individuals who contributed towards the development and finalization of the Adjusted Academic Calendar (AAC) for Classes IX - X. Their contributions were noteworthy as the task of drafting the Academic Calendar could not be done through workshops and face to face consultations with subject experts and teachers due to COVID-19 health advisories and protocols.

It may be mentioned that the AAC is the result of the collaborative online academic exercises undertaken between the SRG, the DERT Task Team, school/ college teachers, and teacher educators from across the Districts of Meghalaya.

I specially thank all the teachers and faculty from different schools and colleges of Meghalaya for their contribution towards the development and finalisation of the AAC.

I also thank the Meghalaya Board of School Education (MBOSE) for helping in identifying the subject experts and in providing the courses of study required for the rationalisation exercise.

In this regard, special mention must be made of the support provided by the Meghalaya School Improvement Program (MSIP) Team of District Managers (DM) comprising of Ms. Doreen Shylla, DM East Khasi Hills; Ms. Onika Dhar, DM East Jaintia Hills and Mr. Ahiezer P. Suchiang, DM West Jaintia Hills who helped coordinate all academic activities with the schools as district level point persons. I also thank Mr. Nathan J. Nengnong, Executive Assistant, MSIP and Adriel A.L. Nongpyiur, Office Assistant, MSIP for all the secretarial support. I am also grateful to Mr. Wankitbok Nongbri, Asst. Technician, DERT; Ms. Ibakordor Sumer, Typist, and Mr. Shining Nongkynrih, Typist, DERT for compiling and collating all documents and manuscripts received from schools and colleges.

And finally, none of this would have been accomplished without the hard work put in by the DERT Task Team (for IX – XII) comprising of Dr. David M. Nongrum, Selection Grade Lecturer and Team Leader, Mrs. Libera Lyngdoh, Sr. Grade Lecturer, Dr. Careleen Y. Kharmalki, Lecturer, Dr. Baladiangti Nongbri, Sr. Grade Lecturer, DERT, and Dr. Della G. Soanes, Selection Grade Lecturer.

I also extend my thanks to all the DERT faculty members for their support and assistance throughout the entire exercise.



Shri. P.B. Lartang,
I/c Director,
Educational Research & Training,
Meghalaya, Shillong

Dated: Shillong, 21 August 2020

Guidance Note for Teachers

1. The Adjusted Academic Calendar (AACs) for Classes IX-X & XI-XII (Arts) are based on the MBOSE Courses of Studies, 2018.
2. The AACs consist of two parts – (a) The AAC which comprises of the content retained along with the distribution of marks and suggested number of periods (b) The Portions removed from the MBOSE Courses of Studies, 2018.
3. The number of periods for each Unit/Chapters is indicative.
4. If any school has already covered topics that are not parts of the 'Revised Adjusted Academic Calendar for Classes IX-X & XI-XII (Arts) in the session 2020-21', the same can be assessed internally.
5. Teachers are also advised that if any of the portions removed are required to bridge learning gaps, the same may be taught and assessed internally.

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CLASS – IX ENGLISH

DISTRIBUTION OF MARKS

	Out of 80	Internal Marks
(i) Prose	25	
(ii) Poetry	15	
(iii) Rapid Reader	10	
(iv) Grammar & Composition	30	
Total Marks	**80**	**20**

MARKING FOR INTERNAL ASSESSMENT

Listening Skills	5
Speaking Skills	5
Writing Skills	5
Miscellaneous Skills	5
Total	**20 Marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**30**	**25**
1. A Drive in the Motor Car – *Roald Dahl* 2. My Big Brother – *Premchand* 3. A Tiger for Malgudi – *R. K. Narayan* 4. The Beggar and the King – *Winthrop Parkhurst*		
II. POETRY	**18**	**15**
1. The Tide Rises, the Tide Falls – *Henry Wadsworth Longfellow* 2. Ode to Autumn – *John Keats* 3. The Power of Music – *Sukumar Ray*		
III. RAPID READER	**15**	**10**
IV. GRAMMAR & COMPOSITION	**34**	**30**
Contents:		
1. Reported Speech 2. Transformation of Sentences (Easy Transformation) i) Sentences with adverb 'too' ii) Interchange of degrees of comparison iii) Interchange of affirmative and negative iv) Interrogative into assertive and vice versa v) Interchange of exclamatory and assertive sentences 3. Phrasal Idioms		

4.Notice Writing 5.Editing – Errors; Omissions; Short paragraphs 6.Comprehension 7.Essay/Letter Writing		
TOTAL	**97**	**80**

CLASS – X ENGLISH

DISTRIBUTION OF MARKS

	Out of 80	Internal Marks
(i) Prose	25	
(ii) Poetry	15	
(iii) Rapid Reader	10	
(iv) Grammar & Composition	30	
Total Marks	**80**	**20**

MARKING FOR INTERNAL ASSESSMENT

Listening Skills	5
Speaking Skills	5
Writing Skills	5
Miscellaneous Skills	5
Total	**20 Marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**23**	**25**
Pieces to read:		
1. Great Expectations- Charles Dickens		
2. Romeo and Juliet- Charles and Mary Lamb		
3. The Demon with the Matted Hair- Indian folktale		
4. The Monkey's Paw- W.W. Jacobs		
II. POETRY	**9**	**15**
Pieces to read:		
1. Life – Charlotte Bronte		
2. The Gift of India- Sarojini Naidu		
3. The Solitary Reaper- William Wordsworth		
III. RAPID READER	**26**	**10**
Oliver Twist		
IV. GRAMMAR AND COMPOSITION	**44**	**30**
Contents		
1. Tenses		
2. Active and Passive		
3. The Preposition		
4. Miscellaneous Idioms		
5. Comprehension		
6. E-mail writing		
7. Story- writing		
TOTAL	**102**	**80**

CLASS – IX ADDITIONAL ENGLISH

DISTRIBUTION OF MARKS

	Out of 80	Internal Marks
(i) Prose	22	
(ii) Poetry	16	
(iii) Play	15	
(iv) Composition	19	
(v) Essay	08	
Total Marks	**80**	**20**

MARKING FOR INTERNAL ASSESSMENT

(i) Listening and Reading: Eg. Audio clips, newspaper reading, poetry reading and review, vocabulary (spelling and pronunciation).	5 marks
(ii) Writing: Eg. Story or picture composition, reports, dialogue writing, autobiography, biography, note making, diary writing, argumentative essays.	10 marks
(iii) Creative Activities/Assignments: Eg. Advertisements, Quotable quotes, Mock Interview, Slogan Writing, Book review, poster designing, extempore speech, debate, enacting plays, designing greeting cards, public speaking, autograph book, self-composed songs or poems.	5 marks

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**24**	**22**
Pieces to be read:		
1. The Liar – *Mulk Raj Anand*		
2. Jenny – *Victor Hugo*		
3. The Umbrella Man – *Roald Dahl*		
4. Self-made Men – *Stephen Leacock*		
II. POETRY	**15**	**16**
Pieces to be read:		
1. Our Casuarina Tree – *Toru Dutt*		
2. The Forsaken Merman – *Mathew Arnold*		
3. A Satirical Elegy on the Death of a Late Famous General – *Jonathan Swift*		
III. PLAY	**35**	**15**
- The Tempest		
IV. COMPOSITION	**10**	**19**
Contents:		
1. One Word Substitution		
2. Amplification		
3. Substance Writing		
4. Picture Composition		
V. ESSAY	**2**	**8**
TOTAL	**86**	**80**

CLASS – X ADDITIONAL ENGLISH

DISTRIBUTION OF MARKS

	Out of 80	Internal Marks
(i) Prose	22	
(ii) Poetry	16	
(iii) Play	15	
(iv) Composition	19	
(v) Essay	08	
Total Marks	**80**	**20**

MARKING FOR INTERNAL ASSESSMENT

(i) Listening and Reading: Eg. Audio clips, newspaper reading, poetry reading and review, vocabulary (spelling and pronunciation).	5 marks
(ii) Writing: Eg. Story or picture composition, reports, dialogue writing, autobiography, biography, note making, diary writing, argumentative essays.	10 marks
(iii) Creative Activities/Assignments: Eg. Advertisements, Quotable quotes, Mock Interview, Slogan Writing, Book review, poster designing, extempore speech, debate, enacting plays, designing greeting cards, public speaking, autograph book, self composed songs or poems.	5 marks

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**16**	**22**
Pieces to read:		
1. A High Dive- L.P. Hartley		
2. War- Lugi Pirandello		
3. Out of Business- R.K. Narayan		
II. POETRY	**17**	**16**
Pieces to read:		
1. The Education of Nature- William Wordsworth		
2. Swimmers- Louis Untermeyer		
3. If- Rudyard Kipling		
III. PLAY	**40**	**15**
A Midsummer Night's Dream (Macmillan)		
IV. COMPOSITION	**12**	**19**
Contents		
1. One Word Substitution		
2. Amplification		
3. Substance Writing		
4. Advertisement		
5. Picture Composition		
V. ESSAY	**2**	**8**
TOTAL	**87**	**80**

CLASS – IX MATHEMATICS

DISTRIBUTION OF MARKS

1.	Number System	08 marks
2.	Algebra	20 marks
3.	Co-ordinate Geometry	06 marks
4.	Geometry and Construction	20 marks
5.	Mensuration	16 marks
6.	Statistics and Probability	10 marks
	Total	**80 marks**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

The Internal Assessment of 20 marks is to be awarded on the basis of the performance of a student in the activity work, project work and continuous assessment as per the following scheme.

- Assessment through test – 10 marks
- Assessment of Project Work – 5 marks
- Assessment of 2 skills – 5 marks.

UNIT/CHAPTER RETAINED	NUMBER OF PERIODS	MARKS
UNIT I: NUMBER SYSTEMS	**4**	**08**
1. Real Numbers		
Review of representation of natural numbers, integers, rational numbers on the number line. Rational numbers as recurring/terminating decimals. Operations on real numbers. Examples of non-recurring/non-terminating decimals. Recall of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws). Rationalization (with precise meaning) of real numbers of the type $\frac{1}{a+b\sqrt{x}}$ and $\frac{1}{\sqrt{x}+\sqrt{y}}$ (and their combinations) where x and y are natural numbers and a, b are integers.		
UNIT II: ALGEBRA	**11**	**20**
1. Polynomials		
Definition of a polynomial in one variable, its coefficients, with examples and counter examples, its terms, zero polynomial. Degree of a polynomial; constant, linear, quadratic, cubic polynomials; monomials, binomials,		

trinomials. Factors and multiples. Zeros of a polynomial/equation. State and motivate the Remainder Theorem with examples and analogy to integers. Factorization of $ax^2 + bx + c$, $a \neq 0$ where a, b, c are real numbers and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Further identities of the type $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$; $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)$, $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$ and their use in factorization of polynomials.		
2. Linear Equations In Two Variables		
Recall of linear equations in one variable. Introduction to equations in two variables. Focus on linear equations of the type $ax + by + c = 0$. Plotting them and showing that they seem to lie on a line. Graph of linear equations in two variables. Examples, problems from real life, including, problems on Ratio and Proportion and with algebraic and graphical solutions being done simultaneously.		
UNIT III: COORDINATE GEOMETRY	**1**	**06**
Coordinate Geometry		
The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane.		
UNIT IV: GEOMETRY	**25**	**20**
1. Lines And Angles		
i) (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180^o and the converse. ii) (Prove) If two lines intersect, the vertically opposite angles are equal. iii) (Motivate) Results on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines. iv) (Motivate) Lines, which are parallel to a given line, are parallel. v) (Prove) The sum of the angles of a triangle is 180^o. vi) (Motivate) If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interiors opposite angles.		

2. Triangles		
i) (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). ii) (Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). iii) (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence). iv) (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle (RHS Congruence). v) (Prove) The angles opposite to equal sides of a triangle are equal. vi) (Motivate) The sides opposite to equal angles of a triangle are equal.		
3. Quadrilaterals		
i) (Prove) The diagonal divides a parallelogram into two congruent triangles. ii) (Motivate) In a parallelogram, opposite sides are equal and conversely. iii) (Motivate) In a parallelogram, opposite angles are equal and conversely. iv) (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. v) (Motivate) In a parallelogram, the diagonals bisect each other and conversely. vi) (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and (motivate) its converse.		
4. Area		
Review concepts of area. Recall area of a triangle. i) (Prove) Parallelograms on the same base and between the same parallels have the same area. ii) (Motivate) Triangles on the same base and between the same parallels are equal in area.		
5. Circles		

Through examples, arrive at definitions of circle related concepts, radius, circumference, diameter, chord, arc, subtended angle. i) (Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse. ii) (Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord. iii) (Prove) The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle. iv) (Motivate) Angles in the same segment of a circle are equal.		
6. Constructions		
i) Construction of a triangle given its base, sum/difference of the other two sides and one base angle.		
UNIT V: MENSURATION	**3**	**16**
1. **Surface Areas And Volumes**		
Surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.		
UNIT VI: STATISTICS & PROBABILITY	**6**	**10**
1. Statistics Introduction to Statistics: Collection of Data, presentation of tabular form, Ungrouped/grouped data, bar graphs, histograms (with varying base lengths), frequency polygons, qualitative analysis of data to choose the correct form of presentation of the collected data. Mean, median, mode of ungrouped data.		
TOTAL	**50**	**80**

CLASS – X MATHEMATICS

DISTRIBUTION OF MARKS

1.	Number Systems	04 marks
2.	Algebra	20 marks
3.	Trigonometry	12 marks
4.	Co-ordinate Geometry	08 marks
5.	Geometry and Construction	16 marks
6.	Mensuration	10 marks
7.	Statistics and Probability	10 marks
	Total	**80 marks**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

The Internal Assessment of 20 marks is to be awarded on the basis of the performance of a student in the activity work, project work and continuous assessment as per the following scheme.

- Assessment through test – 10 marks
- Assessment of Project Work – 5 marks
- Assessment of 2 skills – 5 marks

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
UNIT I: NUMBER SYSTEMS	**7**	**04**
1. Real Numbers Euclid's division lemma, Fundamental Theorem of Arithmetic – Statements after reviewing work done earlier and after illustrating and motivating through examples. Proofs of results – irrationality. Decimal representation of rational numbers in terms of terminating/non – terminating recurring decimals.		
UNIT II: ALGEBRA	**17**	**20**
1. Polynomials Zeros of a polynomial. Relationship between zeros and coefficients of a polynomial.		
2. Pair Of Linear Equations In Two Variables Pair of linear equations in two variables and graphical method of their solution, consistency/ inconsistency. Algebraic conditions for number of		

	solutions. Solution of pair of linear equations in two variables algebraically – by substitution, by elimination Simple situational problems must be included. Simple problems on equations reducible to linear equations.		
3.	**Quadratic Equations** Standard from of a quadratic equation $ax^2 + bx + c = 0$, $(a \neq 0)$. Solution of a quadratic equation (only real roots) by factorization by using quadratic formula. Relationship between the discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.		
4.	**Arithmetic Progressions** Motivation for studying Arithmetic Progression. Derivation of standard results of finding the n^{th} term and sum of the first n terms of Arithmetic Progression and their application in solving daily life problems.		
UNIT III: TRIGONOMETRY		**7**	**12**
1.	**Introduction to Trigonometry** Trigonometric ratios of an acute angle of a right – angled triangle. Proof of their existence (well defined); motivate the ratios, whichever are defined at 0° and 90°. Values (with proofs) of the trigonometric ratios of 30°, 45° and 60°. Relationships between the ratios.		
3.	**Heights And Distances: Angle of elevation, Angle of depression** Simple and believable problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation/depression should be only 30°, 45°, 60°.		
UNIT IV: COORDINATE GEOMETRY		**4**	**08**
1.	**Lines (In two-dimensions)** Review the concepts of coordinates geometry, graphs of linear equations. Distance formula. Section formula		

(internal division), Area of a triangle.		
UNIT V: GEOMETRY	**14**	**16**
1. Triangles Definitions, examples, counter examples of similar triangles. i) (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio. ii) (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. iii) (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. iv) (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. v) (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar. vi) (Prove) In a right triangle, the square on the hypotenuse is equal to the sum of the squares of the other two sides.		
2. Circles Tangents to a circle at a point of contact. i) (Prove) The tangent at any point of a circle is a perpendicular to the radius through the point of contact. ii) (Prove) The lengths of tangents drawn from an external point to a circle are equal.		
3. Constructions i) Division of a line segment in a given ratio (internally). ii) Tangent to a circle from a point outside it.		
UNIT VI: MENSURATION	**9**	**10**

1. Areas Related to Circles Motivate the area of a circle; area of sectors and segments of a circle. Problems based on area and perimeter/ circumference of the above said plane figures. (In calculating area of segment of a circle		
2. Surface Areas And Volumes i) Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones ii) Problems involving converting one type of metallic solid into another and other mixed problems. (Problems with combination of not more than two different solids may be taken).		
UNIT VII: STATISTICS AND PROBABILITY	**4**	**10**
1. Statistics Mean, median and mode of grouped data (bimodal situation to be avoided)		
2. Probability Classical definition of Probability. Simple problems on single events (not using set notation)		
TOTAL	**62**	**80**

CLASS – IX SCIENCE & TECHNOLOGY

DISTRIBUTION OF MARKS

Physics	26 marks
Chemistry	26 marks
Biology	28 marks
Total	**80 marks**

PRACTICAL / INTERNAL ASSESSMENT

Physics	6 marks
Chemistry	6 marks
Biology	8 marks
Total	**20 marks**

UNIT/CHAPTER RETAINED	NUMBER OF PERIODS	MARKS
PHYSICS	**52**	**26**
1. MOTION		
i) How to Describe the Motion of a Body ii) Scalar and Vector Quantities iii) Meaning of the Terms Distance and Displacement iv) Uniform and Non-Uniform Motion v) Speed [Measuring Rate of Change of Motion] vi) Velocity [Speed with Direction] vii) Acceleration viii) Equations of Uniformly Accelerated Motion ix) Uniform Circular Motion		
2. FORCE		
i) Force in Our Life ii) Effects of Force iii) Balanced and Unbalanced Forces iv) Newton's First Law of Motion v) Inertia vi) Momentum vii) Newton's Second Law of Motion viii) Units of Force ix) Applications of Newton's Second Law or Impulse of Force x) Newton's Third Law of Motion		
3. GRAVITATION		
i) Introduction ii) Gravitation iii) Newton's Universal Law of Gravitation iv) Motion of Falling Objects v) Force of Gravity vi) Mass and Weight vii) Equations of Motion for Freely Falling Bodies		

viii) Upthrust or Buoyant Force ix) Archimedes' Principle		
4. WORK AND ENERGY		
i) Work ii) Mathematical Expression for Work iii) Mathematical Expression for Work Against Acceleration Due to Gravity iv) Unit of Work v) Positive, Negative and Zero Work vi) Energy vii) Units of Energy viii) Mechanical Energy ix) Potential Energy x) Mathematical Expression for Potential Energy xi) Kinetic Energy xii) Mathematical Expression for Kinetic Energy xiii) Power xiv) Unit of Power		
5. SOUND		
i) Introduction ii) Sound is Produced by Vibrating Bodies iii) Propagation of Sound iv) Characteristics of Sound		
CHEMISTRY	**49**	**26**
1. THE MATTER IN OUR SURROUNDINGS		
i) Introduction ii) Theory of Molecular Structure of Matter or Characteristics of Particulate Nature of Matter iii) Physical Classification of Matter iv) States of Matter v) Inter-Conversion of States of Matter		
2. IS MATTER AROUND US PURE?		
i) Pure Substances ii) Mixtures iii) Solutions iv) Saturated and Unsaturated Solutions v) Colloidal Solutions or Colloids vi) Physical and Chemical Changes vii) Elements viii) Compounds		
3. ATOMS AND MOLECULES		
i) Atomic Theory of Matter ii) Atom iii) Molecule iv) Molecular Formula v) How to Write Chemical Formula from the Knowledge of Valency		

4. STRUCTURE OF ATOM		
i) Discovery of Nucleus ii) Assumption and Discovery of Neutron iii) Bohr's Model of Atom iv) Study of Nucleus v) Study of Extra-Nuclear Electrons vi) Geometric Representation of Atomic Structure of the First 20 Elements vii) Isotopes viii) Isobars		
BIOLOGY	**70**	**28**
1. CELL – THE FUNDAMENTAL UNIT OF LIFE		
i) Cell Structure (Structural Organisation of a Cell) ii) Cell Organelles iii) Diffusion and Osmosis iv) Endocytosis v) Exocytosis		
2. TISSUES		
i) Introduction ii) Plant Tissues iii) Animal Tissues		
3. DIVERSITY IN LIVING ORGANISMS		
i) Classification ii) Nomenclature iii) Classification of Organisms iv) Kingdom Animalia		
4. WHY DO WE FALL ILL?		
i) Health ii) Disease iii) Types of Diseases iv) Acute and Chronic Diseases v) Causes of Diseases vi) Transmission of Diseases — Means of Spread vii) Principles of Prevention		
5. NATURAL RESOURCES		
i) Natural Resources ii) Types of Natural Resources iii) Air: The Breath of Life iv) Water: A Wonder Liquid v) Biogeochemical Cycles		
6. IMPROVEMENT IN FOOD RESOURCES		
i) Development of Agriculture ii) Crop variety improvement - Higher Yield Through Genetic Manipulation		
TOTAL	**171**	**80**

PRACTICAL

Total – 20 marks

Every student will perform at least fifteen experiments (at least five experiments from each unit) during the academic year.

PHYSICS

1. To determine the density of a solid (denser than water) by using a spring balance and a measuring cylinder.
2. To study the variation in time period of a simple pendulum with length and to plot L - T graph.
3. To determine the value of acceleration due to gravity by simple pendulum.
4. To verify Archimedes' Principle.
5. To determine the boiling point of water and melting point of Ice.
6. To measure the temperature of hot water as it cools and plot a temperature-time graph.
7. To determine the velocity of a pulse propagated through a stretched string/slinky.

BIOLOGY

1. To study the main parts of compound microscope.
2. To make a temporary stained mount of onion peel under a microscope.
3. To study major groups of plants (Thallophyta, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms) and their salient features.
4. Study of major groups of animals (non-chordates and chordates) and their salient features.
5. To study the life cycle of mosquito.
6. Collect articles in the local newspaper regarding health information.

CHEMISTRY

1. To prepare a solution of common salt/sugar of a given percentage composition of mass.
2. To prepare a colloidal solution of sulphur and differentiate it from
   i) true solution and
   ii) suspension, on the basis of transparency and filtration criterion respectively.
3. To differentiate between a mixture (containing two components) and pure compounds.
4. To carry out the following chemical reactions and record the observations
   i) Iron nail with copper sulphate solution in water.
   ii) Zinc with sulphuric acid.
   iii) sodium sulphate with barium chloride in the form of their aqueous solutions.
5. To distinguish between saturated and un-saturated organic compounds.
6. To prepare carbon dioxide gas and study its two physical and two chemical properties.
7. To study the sublimation of iodine or camphor or NH_4Cl or Naphthalene.
8. To study the interconversion of three different states of water and to show that they are the three states of the same substance.
9. To separate the constituents of mixture of two substances (anyone):
   i) Iron and sand
   ii) Iodine and sand

iii) Sand and salt or sugar
iv) Salt and water
v) Sugar and water

10. To prepare one homogeneous and one heterogeneous mixture (preferably one liquid) and distinguish them on the basis of atleast one common property of such solution like
    i) Colour
    ii) Filtration
    iii) Settling

CLASS – X SCIENCE & TECHNOLOGY

DISTRIBUTION OF MARKS

Physics	26 marks
Chemistry	26 marks
Biology	28 marks
Total	**80 marks**

PRACTICAL / INTERNAL ASSESSMENT

Physics	6 marks
Chemistry	6 marks
Biology	8 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
PHYSICS	**59**	**26**
1. REFLECTION AND REFRACTION OF LIGHT		
i) Reflection of Light, ii) Spherical Mirrors and Their Technology iii) Sign Conventions for Reflection by Spherical Mirrors iv) Refraction of Light v) Refraction by Spherical Lenses vi) Power of a Lens, vii) New Cartesian Sign Convention for Lenses		
2. THE HUMAN EYE AND THE COLOURFUL WORLD		
i) Human Eye ii) Accommodation of the Eye iii) Defects of Vision and Their Correction iv) Refraction of Light Through an Equilateral Prism, v) Dispersion of White Light by a Glass Prism.		
3. ELECTRICITY		
i) Electric Charges and its Properties, ii) Flow of Electric Charges Electric Current, iii) Electric Potential iv) Electric Circuit v) Resistance of a Conductor or Electric Resistance vi) Series and Parallel Circuits, vii) Ohm's Law, viii) Expression for Resistances in Series, ix) Expression for Resistances in Parallel		
4. MAGNETIC EFFECTS OF ELECTRIC CURRENT		
i) Magnetic Field and Field Lines, ii) Solenoid iii) Force on a Current Carrying Conductor in a Magnetic Field		
CHEMISTRY	**60**	**26**

1. CHEMICAL REACTIONS		
i) Chemical Equation ii) Types of Chemical Reactions		
2. ACIDS, BASES AND SALTS		
i) Introduction ii) Understanding the Chemical Properties of Acids and Bases, iii) How strong are Acid or Base Solutions iv) More about salts		
3. METALS, NON-METALS AND METALLURGY		
i) Physical Properties of Metals and Non metals ii) Chemical Properties of Metals, iii) Specimen Problems, iv) Occurrence of Metals, v) Corrosion of Metals		
4. CLASSIFICATION OF ELEMENTS		
i) Necessity for Classification of Elements ii) Mendeleev's Periodic Table iii) Mendeleev's Periodic Law iv) Modern Periodic Law v) Long form of Periodic Table vi) Position of Hydrogen in the Periodic Table vii) Study of Normal Elements of the Periodic Table viii) Characteristics of Periods in Long form of Periodic Table ix) Characteristics of Groups in Long form of Periodic Table x) Sample Problems		
5. CARBON AND ITS COMPOUNDS		
i) Introduction ii) The Covalent Bond–Bonding in Carbon and other Non-metals iii) Versatile Nature of Element Carbon iv) Chemical Properties of Carbon Compounds v) Important Carbon Compounds–Ethanol and Ethanoic Acid		
BIOLOGY	**60**	**28**
1. LIFE PROCESSES		
i) What are life processes? ii) Nutrition iii) Autotrophic Nutrition-photosynthesis iv) Heterotrophic Nutrition v) How do organisms obtain their Nutrition? vi) Respiration vii) Transportation viii) Transportation in Human beings ix) Transportation in Plants x) Excretion xi) Excretion in Human beings		
2. CONTROL AND COORDINATION		

i) Animals — Nervous system ii) Structure of Neuron iii) How does an impulse travel in the Body? iv) Types of Nervous Actions v) What happens in Reflex Actions? vi) Human Nervous System vii) Coordination in Plants viii) Immediate response to stimulus ix) Movement due to Growth x) Plant Hormones xi) Hormones in Animals xii) Endocrine Glands in Humans		
3. REPRODUCTION IN PLANTS AND ANIMALS		
i) Modes of reproduction used by single organisms ii) Fission iii) Fragmentation iv) Regeneration v) Budding vi) Vegetative propagation vii) Spore formation viii) Sexual reproduction ix) Sexual Reproduction in Flowering Plants x) Reproduction in Human Beings xi) Reproductive health		
4. HEREDITY AND EVOLUTION		
i) Accumulation of variation during reproduction ii) Heredity iii) Inherited traits iv) Rules for the Inheritance of traits — Mendel's contribution v) Evolution vi) Acquired and inherited traits vii) Evolution and classification		
TOTAL	**179**	**80**

PRACTICAL
Total – 20 marks

Every student will perform at least fifteen experiments (at least five experiments from each unit) during the academic year.

PHYSICS

1. To verify the laws of reflection of light using plane mirror.
2. To determine the focal length of a concave mirror by obtaining image of a distant object.
3. To trace the path of a ray of light passing through a rectangular glass slab for different angle of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
4. To determine the focal length of a convex lens by obtaining the image of a distant object.
5. To trace the path of a ray of light passing through a glass prism and measure the angle of deviation.

6. To study the dependence of potential difference (v) across a resistor, determine its resistance.
7. (a) To determine the equivalent resistance of two resistors when connected in series parallel.
   (b) To determine the equivalent resistance of two resistors when connected in parallel.

BIOLOGY

1. To study land food chain from the given chart.
2. Construction of food web using models.
3. To study the different parts of a Hibiscus flower.
4. To study germination of grams/pea seeds.
5. To test the presence of starch in a given food sample.
6. To study various things around and classify them into living and non-living.
7. To identify bio-degradable and non-biodegradable materials (wastes) in the environment.
8. Collection of newspaper reports on HIV/AIDS.

CHEMISTRY

1. To measure the change in temperature during chemical reaction (at least four) and conclude whether the reaction is exothermic or not.
2. To identify bleaching powder from the given samples of chemicals (four samples).
3. To identify baking soda from samples of chemicals (four samples).
4. (a) To study on precipitation reaction and isolation of the precipitate, Na2SO4 with BaCl2
   (b) To study on precipitation reaction and isolation of precipitate, NaCl with AgNO3.
5. To prepare Sulphur dioxide gas and study its two physical and two chemical properties.
6. Carry out the reactions for an acid (HCl) with:
   i) Litmus solution (blue/red),
   ii) Zinc metal,
   iii) Solid Sodium carbonate
   iv) Sodium hydroxide.
7. To prepare ammonia gas and study its two physical and two chemical properties.
8. To study properties of acetic acid (ethanoic acid).
   i) odour
   ii) solubility in water
   iii) effect on litmus
   iv) reaction with sodium bicarbonate
9. To identify whether a given solution is acidic or basic, performing following test is required:
   i) Litmus test,
   ii) Reaction with NaHCO3 or Na2CO3
   iii) Reaction with NH4OH or (NH4)2 CO3
10. To study the decomposition of CaCO3 and prove that CO2 is evolved during the reaction (lime water test)
11. To perform the reaction of 1: 1 molar acetic acid and ethanol (elhyl alcohol) in the presence of sulphuric acid.
12. To examine the heating effect on sugar and common salt, observe the change and find the nature of bonding in the two compounds.
13. To determine the pH value of equimolar concentration of four acids and arrange them in order of their increasing acidity.

CLASS – IX SOCIAL SCIENCE

DISTRIBUTION OF MARKS

Unit	Parts/Sections	Theory
Section I	History	23
Section II	Civics	17
Section III	Economics	17
Section IV	Geography (Including map works and Disaster Management)	23
Total		**80**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

Each subject segment carries the following weightage of marks for Internal Assessment:	
i) History	5 marks
ii) Civics	5 marks
iii) Economics	5 marks
iv) Geography + Disaster Management	5 marks
Total	**20 marks**

UNITS/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
SECTION I: HISTORY		**23**
UNIT I: Events and Processes	**25**	
1. The French Revolution (1789-1799): France Before the Revolution, Intellectual awakening, The American Revolution, Reign of Terror, The Role of the King, The Role of Women in the Revolution, The Legacy of the Revolution.		
2. Socialism in Europe and the Russian Revolution: Liberals, Conservatives and Radicals, Reign of Czar Nicholas II, Economy and Society, The Russian Revolution, The October Revolution, Changes after October Revolution		
UNIT II: Livelihoods, Economies and Societies	**22**	
3. Forest Society and Colonialism: Why Deforestation? Forests and Colonial Development, Rise of Commercial Forestry, Forest Rules and their effects on Cultivation, The Bhumkal Rebellion, The		

War and its Impact on Forests, New Trends and Developments		
4. Peasants and Farmers: Modern Agriculture in England, Enclosures and the New Demands, How did Enclosure affect the Poor, Problems of Wheat Expansion and Dust Bowl		
UNIT III: Freedom Fighters of Meghalaya	**15**	
1. Freedom Fighters and Prominent Personalities of Meghalaya: Meghalaya's Resistance to British Dominion, Khasi Uprising, Jaintia Uprising, Achik Uprising,		
2. Part I: Investment only for classroom transaction		
Part II: Financial Sector Reforms and Insurance		
3. Source of Funds		
SECTION II: GEOGRAPHY	**45**	**23**
1. Major Relief Features of the Earth i) Forces leading to the formation of landform. ii) Mention, types of mountain and its importance iii) Plateaus types of plateaus and its importance iv) Plains, types of plains and its importance		
2. Tides and Ocean Currents i) The ocean - salinity, temperature and circulation of ocean. ii) Waves, tides and its importance iii) Ocean, Current and its significance		
3. India – Size and Location i) Location and Size ii) Indian Sub-Continent		
4. Physical Features of India i) Major Physiographic division of India		
5. Drainage i) Rivers and its Characteristic ii) Drainage system		
6. Climate i) Climate - factor affecting climate ii) North East trade winds		

iii) The Indian Monsoon		
7. Natural Vegetation and Wildlife i) Ecosystem ii) Biomes and its variations iii) Vegetation types iv) Wildlife v) Conserving Biodiversity		
8. Natural Disasters i) Types of Hazards ii) Factors associated with risk management iii) Mitigation iv) Earthquakes - Vulnerability - Typical effect - mitigation strategies v) Landslides - Warning - Mitigation strategies vi) Flood - warning - vulnerability - Typical effect - mitigation strategies vii) Cyclone - Onset and warning - vulnerability - typical effect - mitigation strategies		
9. Survival Skills i) Skill - Search and rescue ii) Objective and duties of search and rescue team iii) Essential requirement for conducting search and rescue operation		
SECTION III: CIVICS	**30**	**17**
1. Democracy in the Contemporary World i) Democracy in the Contemporary World. ii) Is the world moving towards Democracy?		
2. Democracy in India i) The making of a Constitution. ii) The road to Democracy. iii) The framing of a Constitution. iv) How the Indian Constitution was framed. v) The guiding values of the Indian Constitution. vi) The Philosophy of the Constitution. vii) Salient Features of the Indian Constitution. viii) How Democracy is being Redesigned in India.		
3. Electoral Politics in India		

i) Why Elections ii) How Elections are Held. iii) Are Elections in India Free and Fair.		
4. Institutions of Parliamentary Democracy i) Why do We need Political Institutions? ii) Parliament (Legislature) iii) Political Executive: President, Vice-President, Prime Minister and Council of Ministers. iv) The Judiciary. v) Jurisdiction of the Supreme Court. vi) The Power of Judicial Review. vii) Judiciary's Independence.		
5. Citizens' Rights in Democracy i) Definition of Rights. ii) Why do We need Rights. iii) Classifications of Rights. iv) Fundamental Rights.		
6. Swachh Bharat Abhiyan i) Need of Swachh Bharat Abhiyan. ii) Swachh Bharat Mission in Urban Areas. iii) Gramin Swachh Bharat Mission.		
7. Aadhaar Card		For internal assessment only
SECTION IV: ECONOMICS	**20**	**17**
1. Factors of Production i) Economic and non-Economic activities ii) Meaning and importance term in economic iii) Factor of production		
2. People as a Resource i) Types of resources and how people become a resource ii) Human Capital and importance of Human Capital iii) Education in India iv) Health in India, Economic activities and Classification of economic activities v) Unemployment		
3. Poverty as a Challenge i) Case studies of poverty. ii) Meaning of Poverty.		

iii) Social indicators of poverty. iv) Magnitude of poverty. v) Causes of poverty. vi) Inequalities of income.		
4. Food Security in India i) Meaning and need for food security. ii) Who are food insecure? iii) Food security in India. iv) Public Distribution System. v) Defect of India's food Security system.		
5. Demonetization of Currency i) Meaning of demonetization ii) Merit and demerit of demonetization		
6. **Part I**: **Banks and Loans**		
TOTAL	**162**	**80**

CLASS – X SOCIAL SCIENCE

DISTRIBUTION OF MARKS

Unit	Parts/Sections	Theory
Section I	History	23
Section II	Civics	17
Section III	Economics	17
Section IV	Geography (Including map works and Disaster Management)	23
Total		**80**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

Each subject segment carries the following weightage of marks for Internal Assessment:	
i) History	5 marks
ii) Civics	5 marks
iii) Economics	5 marks
iv) Geography	5 marks
Total	**20 marks**

UNITS/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
SECTION I: HISTORY		**23**
UNIT I: Events and Processes	**22**	
1. The Rise of Nationalism in Europe i) Factors responsible for the growth of nationalism in Europe. ii) Unification of Germany. iii) Unification of Italy. iv) Nationalism and Imperialism.		
2. Non-Cooperation and Civil Disobedience Movements i) The First World War and Early Satyagraha movements. ii) The Khilafat and Non-Cooperation movement. iii) Incidents leading to Civil Disobedience movement. iv) Civil Disobedience movement. v) The Revolutionaries. vi) Those who differed limits of Civil Disobedience Movement.		
UNIT II: Livelihoods, Economies & Societies	**21**	

1. Industrialisation (1850s-1950s) i) Before the Industrialisation. ii) Hand Labour and Steam Engine. iii) Industrialisation in the Colonies. iv) The peculiarities of Industrial Growth. v) Market for Goods.		
2. Urbanisation and Urban Lives i) Features of a City. ii) Industrialisation and the Rise of the modern city of England. iii) Social change in the city. iv) The City in colonial India. v) Cities and Challenge of the environment.		
UNIT III: Culture, Identity & Society		
1. Financial Education		
Part I: Electronic Commerce (e-commerce)	**2**	For internal assessment only.
SECTION II: GEOGRAPHY	**41**	**23**
1. Resources i) Introduction. ii) Types of Resources. iii) Resource Planning in India. iv) Conservation of Resources.		
2. Land Resources i) Land Resources. ii) Land Use – Land use pattern in India. iii) Land Degradation. iv) Soil. v) Types of soil. vi) Soil erosion and soil conservation. vii) Land conservation.		
3. Water Resources i) Introduction. ii) Why water conservation and management. iii) Inter – State water disputes. iv) Rainwater Harvesting. v) Various methods of water harvesting.		
4. **Mineral and Energy Resources** i) What is mineral? ii) Minerals and their Occurrence. iii) Mining – Impact on Health and		

Environment. iv) Distribution of Minerals in India. v) Classification of major Minerals. vi) Conservation of Mineral Resources. vii) Energy Resources. viii) Conventional sources of energy. ix) Nuclear or Atomic Energy. x) Non – Conventional Sources of Energy. xi) Conservation of Energy Resources.		
5. Agriculture i) Introduction. ii) Types of Agriculture. iii) Important Crops – Major Food grains. iv) Food Crops other than food grains. v) Non – Food Crops. vi) Impact of Globalisation on Agriculture. vii) Developments that Helped Raise Agricultural productivity.		
6. Manufacturing Industries i) Classification of Economic Activity. ii) Manufacturing and its Importance. iii) National Economy and Industries. iv) Location of industries. v) Industries – Their categorization. vi) Agro-based Industries. vii) Mineral – based Industries.		
7. Lifelines of National Economy i) Introduction. ii) Transport. iii) Importance of Road Transport. iv) Railways. v) Pipelines vi) Waterways. vii) Airways. viii) International Trade.		
8. Meghalaya: An Overview i) Basic facts about Meghalaya. ii) Introduction. iii) History of Meghalaya. iv) Geography of Meghalaya. v) Government. vi) Economy.		

vii) Natural Resources. viii) Energy Resources. ix) Transport. x) Tourism. xi) Important Places.		
9. Planning Ahead: By the people for the people i) Community Level Initiatives ii) Features of Community Planning iii) Floods iv) Disaster Preparedness and Community Contingency Plan.		
SECTION III: CIVICS	**50**	**17**
Chapter 1: Role of Caste in Indian Politics and Communalism i) Gender and Politics ii) Religion and Politics iii) Caste and Politics		
Chapter 2: Nature of Indian Federal Structure i) What is federalism? ii) The Indian federation iii) Special features of the Indian Federation iv) Working of Federalism in India v) Decentralisation in India vi) Rural local bodies vii) Urban local bodies		
Chapter 3: Popular Struggles and Movements i) Pressure groups ii) Movement groups iii) Modus Operandi of Pressure Groups and Movements iv) Significance of Pressure Groups		
Chapter 4: Political Parties i) Necessity of Political parties in a democracy ii) No. of parties we should have iii) National political parties iv) Challenges before Political parties v) Parties need to be reformed		
Chapter 6: Voter's Awareness and its importance i) Introduction, Meaning of democracy,' Election and voting' ii) Election in India		

iii) Importance of Voting iv) Voter Education Channel v) Vote for India vi) Voters Awareness Observers		
Chapter 7: Women's Rights in India i) Violence against women ii) Efforts of Women's Justice initiative (WJI) to curb violence against women iii) Major issues of concern iv) Women's Rights v) Major Impacts on the status of women		
Chapter 8: Children's Rights in India i) Introduction, Forms of Child abuse ii) In 2017, the Ministry of Women and Child Development (MWCD) released a study report on child abuse iii) Supreme court on child abuse		
Part I: **Economic Depression**	**2**	For internal assessment only.
SECTION IV: ECONOMICS	**22**	**17**
1. Sectors of the Indian Economy i) Classification based on Economic Activities. ii) Relative Importance of Primary, Secondary and Tertiary sectors in India. iii) Mahatma Gandhi National Rural Employment Guarantee Act 2005. iv) Classification based on Employment Conditions (Organised and Unorganised Sectors). v) Classification based on Ownership (Public and Private Sectors).		
2. The Story of Development i) Traditional Notion of Development. ii) Supplementary Notions of Development. iii) Case study of Kerala, Punjab and Bihar. iv) Human Development Indicators. v) Sustainable Development		
3. Money and Financial System i) Barter System of Exchange.		

ii) Money- Meaning, Historical Origin of Money, Constituents of Money. iii) Role of Banks. iv) Credit- Meaning and terms of Credit. v) Credit Institutions- Formal and Informal Financial Institutions. vi) Importance of Formal and Informal Credit. vii) Self Help Groups for the poor.		
4. Consumer Rights i) Forms of Consumer Rights. ii) Factors causing Consumer Exploitation. iii) Consumer Movement. iv) Rights and Duties of Consumers. v) Consumer Protection Measures		
TOTAL	**160**	**80**

CLASS – IX HEALTH & PHYSICAL EDUCATION

Theory	**-**	**80 Marks**
Internal Assessment	**-**	**20 Marks**
Total	**=**	**100 Marks**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

The Internal Assessment will be done through tests, assignments and project work. The breakup of 20 marks for the Internal Assessment may be as follows:

Part - 1	-	Written tests	-	10 marks
Part - 2	-	Assignments	-	5 marks
Part - 3	-	Project Works	-	5 marks

UNIT/CHAPTER RETAINED	NUMBER OF PERIODS	MARKS
UNIT I: Health Hazards of Modern Age	**8**	**10**
1. Health Hazards of Modern Age		
UNIT II: Growth and Development	**4**	**20**
1. Characteristics of Boys and Girls during Adolescence		
UNIT III: Food and Nutrition	**13**	**20**
1. Balanced Diet for Adolescent Boys and Girls 2. Malnutrition and its Effects		
UNIT V: Safety	**6**	**30**
1. Safety 2. Road Safety 3. First aid		
TOTAL	**31**	**80**

CLASS – X HEALTH & PHYSICAL EDUCATION

Theory	**-**	**80 Marks**
Internal Assessment	**-**	**20 Marks**
	Total =	**100 Marks**

WEIGHTAGE OF MARKS FOR INTERNAL ASSESSMENT

The Internal Assessment will be done through tests, assignments and project work. The breakup of 20 marks for the Internal Assessment may be as follows:

Part - 1	-	Written tests	-	10 marks
Part - 2	-	Assignments	-	5 marks
Part - 3	-	Project Works	-	5 marks

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
UNIT I: Growth and Development	**5**	**15**
1. How Mature Are You? 2. You and Your Family		
UNIT II: Diseases	**12**	**20**
1. Some Defence Measures Against Diseases (Immunity and Immunization) 2. Importance of Pupil's and People's Participation in the Implementation of These Programmes		
UNIT III: Consumer Education	**14**	**25**
1. Consumer Education - Consumer Rights, Making Correct Choices While Buying Different Items, Food Adulteration 2. Systems of Medicine and Quackery 3. Drugs, Medicines and Self-Medication		
UNIT V: Life Skills Education	**12**	**20**
1. Teenage Pregnancy 2. Basic Facts About HIV/AIDS 3. Prevention Against HIV/AIDS		
TOTAL	**43**	**80**

CLASS – IX COMPUTER SCIENCE

DISTRIBUTION OF MARKS

Sl. No.	Chapter	Theory Marks	Practical Marks
1	Computer System	8	–
2	Computer Software	8	–
3	Operating System and Windows	10	4
4	Communication Technology	10	–
5	Content Technology	8	–
6	Programming in C	14	8
7	Visual Basic	14	8
8	Societal Impacts of IT – I	8	–
	Total Marks	**80**	**20**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS		MARKS	
	Theory	Practical	Theory	Practical
1. COMPUTER SYSTEM	06		08	
i) Characteristics of a computer ii) Functional component of a computer iii) Input unit iv) Central Processing Unit v) Memory Unit vi) Storage devices vii) Output unit viii) Types of Computer ix) Applications of Computer.				
2. COMPUTER SOFTWARE	07		08	
i) Types of software ii) System software iii) Operating system iv) Language translators v) Utilities vi) Application Software				

3. OPERATING SYSTEM AND WINDOWS	14	10	04
i) Basic Concepts of OS ii) Functions of OS iii) Popular Operating System iv) Basic Commands in Operating Systems v) Desktop vi) Windows Explorer vii) Mobile Operating System			
4. COMMUNICATION TECHNOLOGY	06	10	
i) Advantages of a Network ii) Topology iii) Linear Bus Topology iv) Star Topology v) Ring Topology vi) Tree Topology vii) Types of Network viii) Networking Technology ix) Wired Technology x) Wireless Technology xi) Internet xii) World Wide Web			
5. CONTENT TECHNOLOGY	04	08	
i) Data ii) Information Multimedia iii) Animation iv) File Types v) Conclusion			
6. PROGRAMMING IN C	08	14	08
i) Algorithm ii) Flowchart iii) Introduction to C iv) Structure of a C program v) C Variable vi) C Constant vii) C Keyword viii) Data types			
7. VISUAL BASIC	08	14	08
i) Starting Visual Basic 6.0 ii) Components of Visual Basic Window iii) Creating a New Project in Visual Basic iv) Basic Controls involved in Building an Interface			
8. SOCIETAL IMPACTS OF IT – I	05	08	
i) Plagiarism ii) Intellectual Property Rights iii) Privacy iv) Computer Security and Integrity of Information v) Careers in IT			
TOTAL	**58**	**80**	**20**

CLASS – X COMPUTER SCIENCE
DISTRIBUTION OF MARKS

Sl. No.	Chapter	Theory Marks	Practical Marks
1	Computer Fundamentals	20	5
2	Internet Basics	18	5
3	Object Oriented Programming I – C++	18	5
4	Object Oriented Programming II – Java	16	5
5	Societal Impacts of IT – II	08	-
	Total Marks	**80**	**20**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS		MARKS	
1. COMPUTER FUNDAMENTALS	**Theory**	**Practical**	**Theory**	**Practical**
i. Types of Software ii. System Software iii. Operating System iv. Language Translators v. Utilities vi. Application Software vii. Basic Commands in Operating Systems viii. What is Data? ix. How to Measure Computer Data? x. Number System xi. Conversion xii. Logic Gates	21		20	5

2. INTERNET BASICS	Theory	Practical	Theory	Practical
	69		18	5
i. Internet ii. How Does the Internet Work? iii. Wired and Wireless connection iv. Protocols v. World Wide Web (WWW) vi. Web Browser vii. Web Server viii. Website ix. Web Page x. Web Address xi. IP Address xii. Uniform Resource Locator (URL) xiii. HTML xiv. HTML Editor xv. Creating and Viewing HTML Documents xvi. HTML Tag xvii. HTML Element xviii. Structure of an HTML Document xix. HTML Heading Tag xx. HTML Paragraph tag xxi. Line Break tag xxii. Horizontal Rule tag xxiii. Text Formatting Tags xxiv. List Tags xxv. Images In HTML Tables In HTML xxvi. Linking In HTML				
3. OBJECT ORIENTED PROGRAMMING I – C++	**48**		**18**	**05**
i. What is OOPs? ii. Introduction to C++ iii. Structure of a C++ program iv. Data types v. Variables in C++ vi. Escape Sequences vii. Input / Output in C++ viii. Operators ix. Precedence of operators x. Control Structure xi. Loop Structure				
4. OBJECT ORIENTED PROGRAMMING II – JAVA	**40**		**16**	**05**
i. Characteristics of Java ii. Java Program iii. Programming Structure in Java iv. Some Examples of Java Programs				

5. SOCIETAL IMPACTS OF IT – II	**08**	**08**	
i. Virus ii. Worm iii. Malware iv. Spyware v. Scareware vi. Adware vii. Spam viii. Internet Hacking			
TOTAL	**186**	**80**	**20**

CLASS – IX ENVIRONMENTAL EDUCATION

UNIT/CHAPTER RETAINED	NUMBER OF PERIODS	GRADE
UNIT I: UNDERSTANDING ECOSYSTEM		
1. Ecosystem and its Types i) Introduction ii) Definition iii) Terrestrial ecosystem iv) Aquatic Ecosystems v) Artificial Ecosystems		
2. Interaction Between Biotic and Abiotic Components i) Introduction ii) Components of Ecosystem iii) Interaction between Biotic and Abiotic Components		
3. Energy Flow and Nutrient Cycle i) Introduction ii) Energy Flow iii) Importance of Energy Flow iv) Relationship between Energy Flow and Food Chain v) Importance of the study of Food Chains vi) Nature's Own Mechanism		
4. Impact of Ecosystem Destruction i) Introduction ii) Loss of Habitats iii) Stress on Resources		
5. Conservation of an Ecosystem i) Introduction ii) Why do we need conservation? iii) Aims of conservation iv) Concept Of Sustainability v) Alteration of Habitats and Conservation vi) Conservation of Physical Resources vii) Proper Land Use viii) Development of Non - Polluting Energy Systems		

UNIT II DEPLETION OF RESOURCES		
1. Depletion of Resources i) Introduction ii) Causes of Resource Depletion iii) Impact of Resource Depletion		
2. Practices for Conservation of Resources i) Introduction ii) Practices for Conservation iii) Search for Alternatives		
UNIT III WASTE GENERATION AND MANAGEMENT		
1. Sources and Classification of Waste i) Introduction ii) Sources of Waste iii) Classification of Wastes		
2. Impact of Waste Accumulation i) Introduction ii) Spoilage of Landscape iii) Pollution iv) Air Pollution v) Water Pollution vi) Soil Pollution		
3. Need for Management of Waste i) Introduction ii) Objective of Management of Waste iii) Importance of Waste Management		
UNIT IV: ENVIRONMENTAL VALUES AND ETHICS		
1. Fundamental Values and Ethics i) Introduction ii) Modern Human Rights iii) Indian Scenario. iv) Fundamental Rights. v) Fundamental Duties vi) Value Education.		
2. Women and Child Welfare. i) Introduction ii) Woman Welfare iii) Child Welfare iv) Welfare of Women and Children's Environment.		
TOTAL	**46**	

Note : Evaluation on subject Environmental Education shall be school based grading.

CLASS – X ENVIRONMENTAL EDUCATION

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	GRADE
UNIT I: RESTORING BALANCE IN ECOSYSTEM		
1. Need for Conservation and Management of Water i) Need for adopting control measures to check ii) Need for conservation and management of water. iii) Some Ancient Indian methods for water harvesting iv) Integrated watershed management	04	
2. Conservation and Management of Forests, Grasslands and Semi-Arid Ecosystems i) Threat to forests, grasslands and semi arid ecosystems ii) Conservation of forests, grasslands and semi-arid ecosystems	02	
3. Conservation and Management of Soil i) Why soil conservation is necessary? ii) Farming methods that cause soil Erosion. iii) Soil conservation techniques. iv) Bio-fertilisers. v) Bio-pesticides vi) Social Forestry vii) Joint Forest Management	07	
4. Conservation and Management of Wildlife i) Major threats to wildlife ii) Measures to conserve wildlife/wildlife management iii) National parks iv) Sanctuaries v) Breeding programmes for endangered species vi) Prevention of hunting and poaching vii) Biopiracy viii) Enforcement of legal provision	08	
UNIT II: POLLUTION		
1. Sources of Pollution and Major Pollutants i) Types of pollution ii) Sources of radiation pollution iii) Sources of noise pollution	03	
2. Effects of Pollution on Environment, Human Health and Other Organisms i) Effects of pollution on environment ii) Effects of pollution on human health and other organisms	02	

3. Abatement of Pollution i) Abatement of air pollution ii) Abatement of water pollution iii) Abatement of soil pollution	03	
UNIT III: ISSUES OF THE ENVIRONMENT		
1. Decline in Productivity; Resettlement and Rehabilitation of People. i) Decline in forests and its consequences ii) Decline in agriculture and its consequences iii) Decline in marine productivity and its consequences iv) Resettlement and rehabilitation	04	
2. Greenhouse Effect, Climatic Changes and Global Warming. i) What is greenhouse effect? ii) Process leading to greenhouse effect iii) Importance of greenhouse effect iv) Causes of greenhouse effect v) Impact of greenhouse effect vi) Climatic changes and global warming	06	
3. Acid Rain and Ozone Layer Depletion i) Acid rain ii) Causes of acid rain iii) Formation of Acid rain iv) Sources of acid rain v) Impact of acid rain vi) Control of acid rain. vii) Importance of ozone layer viii) Causative agents of ozone layer depletion ix) Ozone hole x) Impact of ozone layer depletion	10	
UNIT IV: STRIVING FOR A BETTER ENVIRONMENT		
1. Use of Efficient and Eco-friendly Technology i) Sustainable use of resources ii) Sacred groves in India	02	
2. Ecological Restoration and Conservation i) Community participation for ecological restoration and conservation ii) Protection of wildlife	02	
TOTAL	**53**	

Note: Evaluation on subject Environmental Education shall be school based grading

CLASS – IX KHASI (MIL)
DISTRIBUTION OF MARKS

Prose	24 marks
Poetry	14 marks
Rapid Reader	14 marks
Grammar & Composition	28 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Poetry- Text- Ka Duitara Ksiar - *U Soso Tham* Recitation Individual, poetry writing.	6 marks
2. Prose-Text- (i) Ki Dienjat Jong Ki Longshuwa – *Fr. J. Bacchiarello* (ii) Ki Phawer U Aesop - *SosoTham* (iii) Ka Jingsneng Tymmen-Part I - *Radhon Singh Berry* Poster Designing, Story writing, Extempore, Elocution, Study Tour, Social Activities on any related topics, One act play.	10 marks
3. Rapid Reader – Text- Na Mihngi Sepngi - *Fr. H Elias* Take photographs related to topics, Study Tour, Designing Greeting Cards on related topics.	2 marks
4. Grammar And Composition- Text- Hints on The Study of the Khasi Language - *D. Nissor Singh Wahlang* Paste collection of pictures depicting the different kinds of Pronoun.	2 marks
N.B.: *Scrap book on any activities done and cover will add to the weightage of marks.*	
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**20**	**24**
Pieces to be read: 1. Ka Mei Ramew Bad Ki LaiphewJynthaw 2. Ki Samla Bad Ki Drok		
II. KI PHAWER U AESOP Lynnong 31- 37		
III. KA JINGSNENG TYMMEN (PART-I) Lynnong 21-27		

IV. POETRY	**07**	**14**
Pieces to be read: 1. U Khlur 2. Ki Saw Aiom 3. U Lok Shisha		
V. RAPID READER	**05**	**14**
Pieces to be read: 1. Ki Unibersiti Barim Jong Ka India 2. Ka Jingsngewtynnat Jong ka Jingpule kot		
VI. GRAMMAR, COMPOSITION & ESSAY	**20**	**28**
1. The Pronouns i) The Personal Pronoun ii) The Reflexive Pronoun iii) The Relative Pronoun iv) The Compound Relative Pronoun **2. Adverbs and words with which they are used.** From Alphabet 'A' to 'H' – Page 70 to 73 **3. Essay** **4. Precis Writing**		
TOTAL	**52**	**80**

CLASS – X KHASI (MIL)

DISTRIBUTION OF MARKS

Prose	24 marks
Poetry	14 marks
Rapid Reader	14 marks
Grammar & Composition	28 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

I. POETRY- Text- Ka Duitara Ksiar - *U SosoTham* Recitation Individual, poetry writing.	6 marks
II. PROSE Text- (i) Ki Dienjat Jong Ki Longshuwa – *Fr. J. Bacchiarello* (ii) Ki Phawer U Aesop – *Soso Tham* (iii) Ka JingsnengTymmen-Part I - *Radhon Singh Berry* Poster Designing, Story writing, Extempore, Elocution, Study Tour, Social Activities on any related topics, One act play.	10 marks
III. Rapid Reader – Text- Na Mihngi Sepngi - *Fr. H Elias* Take photographs related to topics, Study Tour, Designing Greeting Cards on related topics.	2 marks
IV. GRAMMAR AND COMPOSITION- Text- Hints on the Study of the Khasi Language - *D. Nissor Singh Wahlang* Paste collection of pictures depicting the different kinds of Adverbs.	2 marks
N.B.: *Scrap book on any activities done and cover will add to the weightage of marks.*	
TOTAL	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**20**	**24**
Pieces to be read: 1. Ka Dorbar U Khasi Hyndai 2. Ki Mawbynna, Mawniam Bad Ki Kor		
II. KI PHAWER U AESOP Lynnong: 41-46		
III. KA JINGSNENG TYMMEN (PART-I) Lynnong: 31-36		
IV. POETRY	**09**	**14**
Pieces to be read: 1. U Dieng Bilat 2. Ki Sngi Ba La Leit Noh 3. U Ingkhong Shyllangmat		
V. RAPID READER	**05**	**14**
Pieces to be read: 1. Ka Nobel Prize 2. Ka Trei Ka Ktah Ha Ri Khasi Jaiñtia		
VI. GRAMMAR, COMPOSITION & ESSAY	**16**	**28**
1. The Adverb 2. Adverb and words with which they are used From Alphabet ‘M’ to ‘S’ Page – 76 to 79` 3. Comprehension 4. Essay		
TOTAL	**50**	**80**

CLASS – IX ASSAMESE (MIL)

DISTRIBUTION OF MARKS

Prose	20
Poetry	15
Rapid Reader	15
Grammar	10
Composition	10
Essay	10
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

1. Activities a. Extempore speech/prepared speech b. A Report on a few Harvest Festivals observed in Meghalaya c. Write-up on experience of a journey d. Critical review of any poem from the prescribed lesson	10 marks
2. Prepared Speech: (From Textbook)	5 marks
3. Recitation of Poem: Poem should be selected from the textbook.	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**7**	**20**
Pieces to be read		
1. Anyar prati byabohar – *Satya Nath Borah* 2. Mukti – *Lakkhi Nath Bezbarua* 3. Samay – *Nilmoni Phukan*		
II. POETRY	**7**	**15**
Pieces to be read:		
1. Sisuleela – *Srimanta Sankardeb* 2. Manab Bandana – *Chandra Kumar Agarwala* 3. Prachanda dhulumai Prasna Korile mok – *Dr. Bhupen Hazarika*		
III. RAPID READER	**6**	**15**
Mur Saisab, Mur Kaisor *by Bhobendra Nath Saikia*		

IV. GRAMMAR	**5**	**10**
Pieces to be read		
1. Sandhi 2. Karok 3. Pad Prakaran 4. Samasa (Danda Samasa, Tatpurus Samasa, Karmadharay Samasa)		
V. COMPOSITION	**6**	**10**
Pieces to be read		
1. Make sentences with Phrases and Idioms 2. Opposite words 3. One word for a group of words 4. Similar words, having different meanings 5. Amplification 6. Letter writing		
VI. ESSAY WRITING	**4**	**10**
Types of Essay:		
1. Adarsha Mulak 2. Bhraman Mulak 3. Jibani Mulak 4. Barnana Mulak		
TOTAL	**35**	**80**

CLASS – X ASSAMESE (MIL)

DISTRIBUTION OF MARKS

Prose	20
Poetry	15
Rapid Reader	15
Grammar	10
Composition	10
Essay	10
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

1. Activities: a. Extempore speech/prepared speech b. A Report on a few Harvest Festivals observed in Meghalaya c. Write-up on experience of a journey d. Critical review of any poem from the prescribed lesson	10 marks
2. Prepared Speech: (From Textbook)	5 marks
3. Recitation of Poem: Poem should be selected from the textbook.	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**7**	**20**
Pieces to be read		
1. Chatra jibon aru smaj sewa – *Deinswar Neog* 2. Bharatiya Sanskriti – *Hem Baruah* 3. Nuton arn saptados satikar bouddhik biplob – *Dr. Kulendu Pathak*		
II. POETRY	**7**	**15**
Pieces to be read		
1. Borgeet – *Sri SriMadhadev* 2. Zikir – *Ajain Fakir* 3. Mor desh manuhor desh – *Debakanta Baruah*		
III. RAPID READER	**8**	**15**
Mur Saisab, Mur Kaisor *by Bhobendra Nath Saikia*		
IV. GRAMMAR	**6**	**10**
Pieces to be read		

1. Sandhi 2. Samasa (Digu Samasa, Bahubrihi Samasa, Abyaieebhab Samasa) 3. Pratyaya (Tadhit Pratyaya, Stri Pratayaya) 4. Pad Prakaran 5. Karak		
V. COMPOSITION	**6**	**10**
Pieces to be read		
1. Make sentences with Phrases and Idioms 2. Opposite words 3. One word for a group of words 4. Similar words, having different meanings 5. Amplification 6. Letter writing		
VI. ESSAY WRITING	**4**	**10**
Types of Essay		
1. Adarsha Mulak 2. Bhraman Mulak 3. Jibani Mulak 4. Barnana Mulak		
TOTAL	**38**	**80**

CLASS – IX BENGALI (MIL)

DISTRIBUTION OF MARKS

Prose	16
Poetry	12
Rapid Reader	12
Grammar	24
Composition	16
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

1. A Project work or assignment	10 marks
2. A viva voce on the home assignment submitted	5 marks
3. A viva voce on any assigned topic	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**16**	**16**
Pieces to be read: i) Pitrisneha – by *Dwijendralal Roy* ii) Chhuti – by *Rabindranath Tagore*		
II. POETRY	**16**	**12**
Pieces to be read: i) Dhulamandir – by *Rabindranath Tagore* ii) Kabar – by *Jasimuddin*		
III. RAPID READER	**10**	**12**
i) Ramer Sumati *by Sharatchandra Chottopadhyay*		
IV. GRAMMAR	**12**	**24**
Pieces to be read: i) Uposarga o Anusarga ii) Samas o tar chhoyti prokar bhed iii) Ek kothay prokash iv) Baagdhara v) Ashuddhi Sansodhan		
V. COMPOSITION	**05**	**16**
Pieces to be read: i) **Bhaab Samprasaro**		
TOTAL	**59**	**80**

CLASS – X BENGALI (MIL)

DISTRIBUTION OF MARKS

Prose	16
Poetry	12
Rapid Reader	12
Grammar	22
Composition	18
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

1. A Project work or assignment	10 marks
2. A viva voce on the home assignment submitted	5 marks
3. A viva voce on any assigned topic	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**16**	**16**
Pieces to be read: 1. Adorini – by Prabathkumar Mukhopadhyay 2. Tota Kahini – by Sayad Mujtaba Ali		
II. POETRY	**16**	**12**
Pieces to be read: 1. Gramyachhabi – by Girindramohini Dasi 2. Abar Asibo Phire – by Jiibananda Das		
III. RAPID READER	**10**	**12**
1. Shrikanta O Indranath by Sharatchandra Chottopadhyay		
IV. GRAMMAR	**14**	**22**
Pieces to be read: 1. Definition – apinihiti, abhishruti, swaraagam, borno biparjay, samas 2. Samas o tar chhoyti prokar (samas nirnoy) 3. Bagdhara		

4. Ek kothay prokash		
V. COMPOSITION	**04**	**18**
Pieces to be read: 1. Prabandha Rachana or picture composition/story writing (for blind students)		
TOTAL	**60**	**80**

CLASS – IX GARO (MIL)

DISTRIBUTION OF MARKS

Prose	25
Poetry	18
Rapid Reader	10
Grammar	10
Composition	7
Essay/Comprehension	10
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

Writing skills: story writing, picture composition, Life of the poet or author	10 marks
Listening & Reading: Reading, Spelling & Dictations, Phonetics	5 marks
Creativity: Extempore, slogan writing, chart making base on the lesson, Group discussions	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**03**	**25**
Pieces to be read 1. Capt. Williamson A. Sangma – *Mary Celina A. Sangma* 2. Ta·sek Wari – *John P. Marak* 3. A·chikrangni Kal·susaanirang – *Tharsush K. Sangma*		
II. POETRY	**03**	**18**
Pieces to be read: 1. A·chik A·song – *Harendra W. Marak* 2. A·gilsak Dal·begipa Alda Nok – *Jarongpang Rongmuthu* 3. Nokgipani Pattia – *Phoebe W. Momin*		

III. RAPID READER	**05**	**10**
1. Veniceni Badinggipa *by Mackenson Rongmuthu*		
IV. GRAMMAR & COMPOSITION	**15**	**10**
Pieces to be read **Sentence aro uni bakrang** 1. Sentence 2. Subject aro Predicate 3. Noun, Pronoun, Verb 4. Talatgipa Kattarang – Adjective, Adverb 5. Preposition, Conjunction aro Interjection **Bak – III** Kattarang (Ma·arang aro Bimungrang) 1. Kattarangni Ma·arang 2. Noun: Ma·arang, Gender 3. Pronoun – Ma·arang, Gender		`
V. COMPOSITION	**02**	**7**
VI. ESSAY/COMPREHENSION	**02**	**10**
TOTAL	**30**	**80**

CLASS – X GARO (MIL)

DISTRIBUTION OF MARKS

Prose	25
Poetry	18
Rapid Reader	10
Grammar	10
Composition	7
Essay/Comprehension	10
Total Marks	**80**

MARKING FOR INTERNAL ASSESSMENT

Writing skills: story writing, picture composition, Life of the poet or author	10 marks
Listening & Reading: Reading, Spelling & Dictations, Phonetics	5 marks
Creativity : Extempore, slogan writing, chart making base on the lesson, Group discussions	5 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**03**	**25**
Pieces to be read 1. Rev. Thangkan K. Sangma – Lindrid D. Shira 2. Jatni Nisan, Git aro Chin – Brucellish K. Sangma 3. Chadambeni Salrang – Lindrid D. Shira		
II. POETRY	**04**	**18**
Pieces to be read: 1. Ang' Chakki – Evelyn R. Marak 2. Saljong Tasin Me·chik – Monensing R. Sangma 3. Pring – Surendra S. Marak 4. Da·al – Rev. Gilbert K. Marak		
III. RAPID READER	**11**	**10**
1. Skul Master (Dakmesokani) – L. D. Shira		

IV. GRAMMAR	**07**	**10**
Pieces to be read **Bak - I** i) Phrase ii) Clause **Bak – III** i) Verb – Ma·arang, Mood, Participle, Verbal Noun, Verbal Adjective aro Tense ii) Adjective - Ma·arang aro Tososaani iii) Adverb - Ma·arang aro Tososaani, Napsikgipa Adverbrang		
V. COMPOSITION	**03**	**07**
i) A·chik Composition – K. M. Momin ii) A·chik Kattarang – W. K. Sangma		
VI. ESSAY/COMPREHENSION	**02**	**10**
TOTAL	**30**	**80**

CLASS – IX NEPALI (MIL)

DISTRIBUTION OF MARKS

Prose	30 marks
Poetry	18 marks
Rapid Reader	10 marks
Grammar & Composition	22 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Reading Recitation, Dictation, Extempore speech, Elocution	05 marks
2. Home assignment – self composed poem or to write the life story of any poet or author	10 marks
3. Project Work - a) To develop the story from the given picture (visual clue) b) Slogan writing c) Chart making on the basis of Lessons (Paste Pictures and Drawings)	05 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**14**	**30**
Pieces to be read: 1. Bhavishya Nirman 2. Nisha 3. Hargovind Khurana 4. Gandhi.		
II. POETRY	**14**	**18**
Pieces to be read: 1. Aama 2. Jeevan: Ek Drishti 3. Shraddhanjali 4. Kaviprati		
III. RAPID READER	**15**	**10**
i) 'Mane' by Subhash Darjeeling		

IV. GRAMMAR & COMPOSITION		
Pieces to be read: **Part I Descriptive Grammar** 1. Essay Writing (Nibandha Lekhan) 2. Letter Writing (Patra Lekhan) 3. Comprehension (Bodh Pranali) 4. Precis Writing (Saransa Lekhan or Sanchhepikaran)	**10**	**07**
Part II Objective Grammar 1. Linga, Sangya, Sarvanam, Sandhi, Visheshan 2. Ukhan, Tukka Ra Vakyansha 3. Viparitarthak Shabda, Sammocharit Shabda, Prayayvachi Shabda, Sar Shabda (one word for many), Chinha Prayog (Punctuation)	**10**	**15**
TOTAL	**63**	**80**

CLASS – X NEPALI (MIL)

DISTRIBUTION OF MARKS

Prose	30 marks
Poetry	18 marks
Rapid Reader	10 marks
Grammar & Composition	22 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Reading Recitation, Dictation, Extempore speech, Elocution	05 marks
2. Home assignment – self composed poem or to write the life story of any poet or author	10 marks
3. Project Work - a) To develop the story from the given picture (visual clue) b) Slogan writing c) Chart making on the basis of Lessons (Paste Pictures and Drawings)	05 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**20**	**30**
Pieces to be read: 1. Shikchhachha ko Udheshya 2. Alijheko Ichchha 3. Paras Mani Pradhan 4. Chitthi 5. Charlicheplin: Ek Asaadharan Vyaktittyo		
II. POETRY	**12**	**18**
Pieces to be read: 1. Garib 2. Sweet Falls 3. Bhanubhakta Prati 4. Adikar Ra Kartavya		
III. RAPID READER	**16**	**10**
i) 'Maita Ghara' by Shri Lain Singh Bangdel		

IV. GRAMMAR & COMPOSITION	**10**	**22**
Pieces to be read: 1. Essay Writing (Nibandha Lekhan) 2. Comprehension (Bodh Pranali) 3. Letter Writing (Patra Lekhan) 4. Linga, Sangya, Visheshan, Sandhi, Kriya Rayasko Prakar 5. Dhatu Ra Pratyay, Upasarga, Vachya, Vakyansha, Ukhan Ra Tukka 6. Viparitarthak Shabda, Sammocharit Shabda, Prayayvachi Shabda, Shar Shabda		
TOTAL	**58**	**80**

CLASS – IX URDU (MIL)

DISTRIBUTION OF MARKS

Prose	25 marks
Poetry	15 marks
Grammar	15 marks
Composition (a) Essay (b) Letter/Application/ Paragraph Writing (c) Substance Writing	 10 marks 10 marks 05 marks
Total	**80 marks**

UNIT/ CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE (NASRE) **PIECES TO BE READ**	**4**	**25**
1. Guzra Hua Zamana (Inshaaiya) - Sir Syed Ahmed Khan 2. Hajj – e – Akbar (Afsana) - Munshi Prem Chand 3. Jiney Ka Saleequa (Mazmoon) - Khawaja Ghulam – us- Sayedein 4. Information Technology (Mazmoon) - Idaara		
II. POETRY (NAZM) **PIECES TO BE READ**	**5**	**15**
1. Muflisi Sab Bahar Khoti Hai (Ghazal) - Wali Mohammed Wali 2. Dard Mannat Kashe Dawa na Hua (Ghazal) - Mirza Ghalib 3. Ham Hain Mataye Kucha – o – Bazar (Ghazal) - Majrooh Sultanpuri 4. Tallem Se Betawajjehi ka Nateeja (Nazm) - Altaf Hussain Hali 5. Arzoo; Shab – e – Pubahar (Quatah) - Akhtar Ansari		
III. RAPID READER (Suraati Mutalaàh) **: Gulzar – e – Urdu for Class – IX**	**2**	**10**
1. Man ka Tota – Ratan Singh 2. Doshaalah – Jilani Bano		
IV. URDU GRAMMAR, COMPOSITION AND COMPREHENSION (Urdu Quawaid, Tarz – e – Nigarish aur Idraak – O – Fahem)	**4**	**15**

1. Urdu Grammar (Urdu Quawaid for Class –X): ***Topics to be read :-***		
(i) Ism Muarfa, Ism Nakra ki tarifaat aur unki quismein (ii) Feil, Sifat, Zameer, Zamana aur Hurf ki tarifaat aur unki quismein (iii) Sabquey aur Lahquey, Wahid aur jama, muzakkr aur muannas (iv) Mutaradif Alfaz,Mutazad Alfaz, Mutashabeh Alfaz.		
2. Composition (Tarz – e – Nigarish)	**2**	**10**
(i) Essay (Mazmoon Nawesi) (ii) Letter (Khatoot Nawesi)		
3. Comprehension (Idraak – O – Fahem)	**1**	**05**
Short Questions based on given unseen passages/paragraphs in Urdu.		
TOTAL	**18**	**80**

CLASS – X URDU (MIL)

DISTRIBUTION OF MARKS

Prose	25 marks
Poetry	15 marks
Grammar	20 marks
Life History	10 marks
Essay	10 marks
Total	**80 marks**

UNIT/ CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE (NASRE) **PIECES TO BE READ**	**4**	**25**
1. **Sir Sayyed Ka Bachpan** *(Swanh)* - *Maulana Altaf Hussain Hali.* 2. **Aazmaaish** *(Drama)* - *Mohammad Mujeeb* 3. **Makhloot Zabaan** *(Mazmoon)* - *Maulwi Abdul Haque* 4. **Mahaul Bachaiye** *(Mazmoon)* - *Dr. Mohammad Aslam Parvez*		
II. POETRY (NAZM) **PIECES TO BE READ**	**5**	**15**
1. **Layee heyat aaye** (Ghazal) - Mohammad Ibrahim Zauque. 2. **Aalaam – e – rozgar ko** (Ghazal) Asgar Gondawi 3. **O' des Se Ane Wale Bataa** (Nazm) - Akhtar Shirani 4. **Aandhi** (Nazm) -Kaifi Azmi 5. **Rubayee** **(i) Rutbah jise duniya mein** *-Meer Babber Ali Anis* (ii) **Mazhab ki zabaan per hai** *- Tilok Chand Mehrrom* (iii) **Her aib se mana ke juda** *- Firaque Gorakhpuri*		
III. RAPID READER (Suraati Mutalaàh): Gulzar – e – Urdu for Class – X	**2**	**10**
1. **Sultan** - *Ahmad Nadeem Quasmi* 2. **Gudri ka Lal** - *Maulwi Abdul Haque*		

IV. URDU GRAMMAR, COMPOSITION AND COMPREHENSION (Urdu Quawaid, Tarz – e – Nigarish aur Idraak – O – Fahem)	**3**	**10**
1. Urdu Grammar (Urdu Quawaid for Class – X) : *Topics to be read :-*		
(i) Feil, Sifat, Zameer, Zamana aur Hurf ki tarifaat aur unki quismein (ii) Sabquey aur Lahquey, Wahid aur jama, muzakkar aur muannas (iii) Mutaradif Alfaz,Mutazad Alfaz, Mutashabeh Alfaz		
2. Composition (Tarz – e – Nigarish)	**1**	**10**
(i) Essay (Mazmoon Nawesi)		
3. Comprehension (Idraak – O – Fahem)	**1**	**10**
Short Questions based on given unseen passages/paragraphs in Urdu.		
TOTAL	**16**	**80**

CLASS – IX HINDI (MIL)

DISTRIBUTION OF MARKS

Prose	20 marks
Poetry	20 marks
Rapid Reader	15 marks
Grammar	17 marks
Composition (a) Essay	 08 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Home assignment (Life history of any writer) in own handwriting	07 marks
2. Dictation	04 marks
3. Reading	04 marks
4. Spelling	05 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE	**16**	**20**
Pieces to be read:		
1. Pashchatap – *by Premchand*		
2. Dr. Bhim Rao Ambedkar – *by Niranjan Kr. Singh*		
3. Kitna Badla Mera Gaon – *by Mansingh Verma*		
4. Jeeta Kaun – *by Satyaprakash Agarwal "Umang"*		
II. POETRY	**12**	**20**
Pieces to be read:		
1. Dekho Kitni Pyari Maa – *by Ram Gopal Bharatiya*		
2. Jhansi Ki Rani – *by Ramdhari Singh Dinkar*		
3. Doha-Ekadash – *by Kabir Rahim*		
III. RAPID READER	**12**	**15**
- Sanchayan (NCERT) Part-I		
1. Gillu – by Mahadevi Verma 2. Smriti – by Shriram Sharma 3. Kallu Kumhar Ki Unakoti – by K. Bikram Singh 4. Hamid Khan – by S.K. Pottekat		

IV. GRAMMAR & COMPOSITION	**16**	**25**
Pieces to be read:		
1. Varna-Vichar		
2. Vartani		
3. Sandhi-Swar Sandhiya		
4. Sabdo Ke Bhed		
5. Ling Aur Bachan		
6. Karak Aur Ruprachana		
7. Samas (A)		
8. Upasarga; Pratyay		
9. Vakya, Upvakya Aur Unke Bhed		
10. Vakya-Parivartan		
11. Viramchinha		
12. Lokoktiya		
Composition		
1. Patra Lekhan (letter-writing)		
2. Nibandh Lekhan (essay) (HamareGaon – Sainik Ki Atma Katha)		
TOTAL	**56**	**80**

CLASS – X HINDI (MIL)

DISTRIBUTION OF MARKS

Prose	20 marks
Poetry	20 marks
Rapid Reader	15 marks
Grammar	17 marks
Composition (a) Essay	 08 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Home assignment (Life history of any writer) in own handwriting	07 marks
2. Dictation	04 marks
3. Reading	04 marks
4. Spelling	05 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. PROSE		
Pieces to be read:	**15**	**20**
1. Shahid Bakri – *by Ayodhya Prasad Goyellia*		
2. Bade Sapne Dekhe – *by A. P. J. Abdul Kalam*		
3. Har Ki Jeet – *by Sudarshan*		
4. Tiruwalluwar – *by MansinghVerma*		
5. Neelkanth – *by MahadeviVarma*		
II. POETRY		
Pieces to be read:	**15**	**20**
1. Is Matti Ko Naman Karen – *by Mansingh Verma*		
2. Vishwa Nagrik Bane – *by Vidhichandra Patwari*		
3. Teen Kundaliya – *by Giridhar*		
4. Baal Leela – *by Surdas*		
5. Uddyami Nar – *by Ramdhari Singh Dinkar*		
III. RAPID READER	**15**	**15**
- Sanchayan (NCERT) Part-II 1. Harihar Kaka – by Mithileshwar 2. Topi Sukhla – by Rahi Masum Raja		
IV. GRAMMAR & COMPOSITION	**18**	**25**
Pieces to be read:		
1. Sandhiyan-Vyanjan, Visarga, Tatha Hindi Ki Sandhiyan		
2. Kriya Ka Roob Parivartan Kalo Aur Vidhiyomein		
3. Kriya Ke Vachaya Aur Prayog		

4.	Samas (B)		
5.	Sabdh – Vivek		
6.	Padhbandhan		
7.	Vakya, Upvakaya Aur Unke Bhed		
8.	Vakya Parivartan		
9.	Vakya Visleshan		
10.	Muhabare		
11.	Lokoktiya		
12.	Alangkar		
Composition			
1.	Nibandh Lekhan (essay)		
2.	Paropkar – Madhyapanduwara Vinash (Avyasbhi)		
TOTAL		**63**	**80**

CLASS – IX MIZO (MIL)

DISTRIBUTION OF MARKS

Hla (Poetry)	20 marks
Thu (Prose)	25 marks
Mizo Grammar	15 marks
Lemchan (Drama)	10 marks
Thawnthu tawi (Rapid Reader)	10 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Writing skill – Project work, home assignment, composition, amplification, story writing.	10 marks
2. Listening and Reading skill – Dictation, Recitation, News reading, extempore debating.	10 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. THU (PROSE)	**26**	**25**
Pieces to be read:		
1. A lem leh a tak – *Vanneihtluanga*		
2. Mihring dikna leh chanvo – *Lalhmunmawia*		
3. Tlawmngaihna leh aia upa zah – *R. Lalrawna*		
4. Huaina – *R. H. Rokunga*		
5. Rilru puitling – *H. Ngurthansanga*		
6. Mahni inhneh – *Lalzuia Colney*		
7. Chhiatni thatni – *Thanpuii pa*		
8. Lungawina – *James Dokhuma*		
II. HLA (POETRY)	**19**	**20**
1. A saw raltiang tlangah – *Lalmama*		
2. Hrinhniang an liamna thlafam khua chu e – *Saihnuna*		
3. Ka pian ka seilenna ram – *Rokunga*		
4. Kan zoram nuam – *Hranghnuna*		
5. Lam ang ka lo let leh ta e – *F. Rokima*		
6. Buannel – *R. L. Thanmawia*		
7. Sem sem dam dam – *B. Bawlkhuma*		
III. MIZO GRAMMAR	**6**	**15**

1. Noun		
2. Pronoun		
3. Tawng Upa		
IV. LEMCHAN (DRAMA)	**3**	**10**
Lungrem a chim – *Liansailova*		
V. THAWNTHU TAWI (RAPID READER)	**5**	**10**
Pathian Samsuih – *Rev. Zokima*		
TOTAL	**59**	**80**

CLASS – X MIZO (MIL)

DISTRIBUTION OF MARKS

Hla (Poetry)	20 marks
Thu (Prose)	30 marks
Mizo Grammar	20 marks
Thawnthu tawi (Rapid Reader)	10 marks
Total	**80 marks**

MARKING FOR INTERNAL ASSESSMENT

1. Writing skill – Project work, home assignment, composition, amplification, story writing.	10 marks
2. Listening and Reading skill – Dictation, Recitation, News reading, extempore debating.	10 marks
Total	**20 marks**

UNIT/CHAPTERS RETAINED	NUMBER OF PERIODS	MARKS
I. THU (PROSE)	**23**	**30**
Pieces to be read:		
1. Nun kawng – *R. L. Thanmawia*		
2. Thalaite Khawvel – *Siamhnuna Khawlhring*		
3. Mizo Thufing		
4. Zawlbuk – *C. Lianhmingthanga*		
5. Peihna – *Sangzuala*		
6. Mizote leh an nihna – *B. Lalthangliana*		
7. Tihdan tha		
II. HLA (POETRY)	**16**	**20**
Pieces to be read:		
1. Aw Lalpa, Davida leh a thlah arsi – *Patea*		
2. Kum sul liam hnu – *C. Lalkhawliana*		
3. Chhul khat kual – *C. Durthanga*		
4. Zofate inpumkhatna – *C. Chhuanvawra*		

5. Zirtu kawng – *Selet Thanga*		
6. Chhingkhual len mawi – *P. S. Chawngthu*		
III. MIZO GRAMMAR	**6**	**20**
1. Parts of Speech thenkhat – Verb, Adjective, Adverb		
2. Tawng Upa		
IV. THAWNTHU TAWI (RAPID READER)	**6**	**10**
Tualte Vanglai – *Pastor Nikhama*		
TOTAL	**51**	**80**