

PART – A:

ELIGIBILITY OF CANDIDATES

1. A student seeking admission to any class in an institution will be eligible for admission to that class only if he/she :
 - a. has been studying in an institution recognised by or affiliated to this Board or the Directorate of School Education, Nagaland or any other recognised Board, Council in India or the Education department of the concerned state,
 - b. has qualified at the qualifying or equivalent examination making him/her eligible for admission to that class, and
 - c. produces document(s) (marksheets, transfer certificate) in support of his/her having qualified the qualifying or equivalent examination.
2. Migrating students to Classes IX & X shall not be eligible for admission unless they get the permission from this Board. Permission shall be granted only after the Board is satisfied that the course of study undergone and examination qualified is equivalent to the corresponding class and course of this Board.

Permission shall not be granted if the course of study undergone and examination qualified is not based on the core curriculum which is followed by this Board.
3. Admission to a class in an institution shall be allowed only to such a student who :
 - a. has completed a regular course of study in the immediate lower class,
 - b. has qualified the qualifying or equivalent examination from an institution registered with this Board or the Directorate of School Education, Nagaland or under any recognised Board, Council or the Education department of the concerned state,
 - c. has not qualified the examination corresponding to the class for which admission is sought or the next higher examination,
 - d. was studying in that class or a class equivalent to the class in which admission is sought and
 - e. has been permitted by this Board.
4. No student shall be admitted to any class or examination or promoted to any subsequent higher class in any institution without completing the course. He/she has to complete the regular course of study of the class to which he/she was admitted at the beginning of the academic session. He/she also has to qualify the examination at the end of the concerned academic session qualifying him/her for promotion to the next higher class.
5. *Science stream at Higher Secondary level.*

A student desiring to go for Science stream must get the qualifying grades in Mathematics and Science at Class X.
6. *Commerce stream at Higher Secondary level.*

A student desiring to go for Commerce stream must get the qualifying grade in Mathematics at Class X.
7. *Arts stream at Higher Secondary level.*

A student who get qualifying grade in HSLC can be admitted to Class XI under Arts stream.
8. Detention of eligible candidates:

Registered schools (recognised or permitted) may debar a student from appearing at the final examination on account of any of the following reasons:

 - a. if there is no sign of academic improvement or if the student has a deteriorating performance in the weekly/monthly tests and terminal examination.

- b. gross misconduct and insubordination to the school authority,
 - c. failure to attend coaching classes.
 - d. non-payment of fees (school fees, examination fees etc).
 - e. failure to abide by the school rules.
 - f. any grave reason which necessitates such an action.
9. Candidates appearing for any of the Board's examination shall not be admitted to the examination if he/she has already qualified the equivalent or higher examination of any other Board, Council or University.
10. No student from an institution registered to the Board shall be eligible to take any of the Board's examination unless he/she has acquired the required percentage of attendance.
11. No institution registered with/affiliated to the Board shall endeavour to present the candidates who are not on its roll nor will it present the candidates of its unregistered branch/schools to any of the Board's examinations.
12. A student who has been studying in a school/college which is not recognised by this Board or by any other recognised Board, Council or University shall not be admitted to any class of an institution on the basis of certificate(s) of such unrecognised institution attended earlier nor shall be allowed to sit at any of the Board's examination.
13. If the statement made by the parent or guardian of a student or by the student himself/herself in any of the document(s) at the time of admission in school/concerned examination is found to be false or contain any willful misrepresentation of facts, the admission to school shall be cancelled or the candidature for the examination shall be rejected/cancelled at any time.
14. A candidate who has been expelled or is under punishment or rustication or is debarred for appearing in or taking an examination for any reason by this Board or any member Board of COBSE shall not be permitted to appear the High School Leaving Certificate Examination as private candidates.
15. To qualify at the Board's examination, a student must study and complete the prescribed regular course of study and also appear in all the required subjects of study at the examination.

PART – B
SCHEME OF STUDIES

Subjects of study:

The scheme and subjects of study for Classes IX and X shall include the following subjects of study.

A. Compulsory subjects :

1. First Language - English
2. Second Language - *any one of the following:*
 - i. Hindi
 - ii. Bengali
 - iii. Ao
 - iv. Lotha
 - v. Sümi
 - vi. Tenyidie
 - vii. Alternative English
3. Mathematics
4. Science
5. Social Sciences

B. Optional (any one) :

Sixth Subject

- i. Book Keeping & Accountancy
 - ii. Environmental Education
 - iii. Home Science
 - iv. Foundation of Information Technology (FIT)
 - v. Music
- Vocational**
- vi. IT/ITeS
 - vii. Health Care
 - viii. Retail
 - ix. Travel & Tourism

C. Internally Assessed subjects :

1. Work & Art Education
2. Physical & Health Education (including Adolescence Education)

D. Instructional Time:

- (a) The number of working days shall be 210.
- (b) There shall be 6 (six) working hours having 8 (eight) periods a day and a minimum of 48 periods a week.

Teaching Time per week :

Recommended periods per week :

Subjects	Periods
1. First Language (English)	7
2. Second Language	6
3. Mathematics	8
4. Science	8
5. Social Sciences	8
6. Sixth subject	5
7. Work & Art Education	3
8. Physical & Health Education	3

Total periods 48

E. Medium of Instruction :

The medium of instruction and examination for all subjects shall be English except for Major/Modern Indian Language subjects, in which case the language concerned shall be applicable.

F. Selection of the sixth subject : It is desired that students choose their sixth optional subject keeping in view their future course of studies in general and professional courses. However, the school may also make an endeavour to cater to the needs of its pupils.

PART – C

SCHEME OF EXAMINATIONS

Nature of Examination :

A. Class IX final examination :

Class IX (nine) examination shall be conducted at the end of the academic year and results shall be declared internally by recognized schools/centre schools only in accordance with the criteria and syllabus prescribed by the Board in order to maintain a uniform standard in all registered schools. Certificate of qualification shall be issued by the Board.

B. HSLC Examination :

Class X (ten) examination known as High School Leaving Certificate shall be conducted at the end of class 10 schooling, basing on the Board prescribed syllabus of Class X (ten) only.

C. Details of externally assessed subjects, marks and duration for Class IX and HSLC Examination is given below :

Sl.no.	Subject	No.of papers	Marks	Duration
1.	Language I	One	80	3 hours
2.	Language II	One	80	3 hours
3.	Mathematics	One	80	3 hours
4.	Science	One	80	3 hours
5.	Social Sciences	One	80	3 hours
6.	Optional (any one)			
	Sixth Subject			
	i) Environmental Education	One	80	3 hours
	ii) Home Science	One	70	3 hours
	iii) Book Keeping & Accountancy	One	70	3 hours
	iv) FIT	One	70	3 hours
	v) Music	One	70	3 hours
	Vovational			
	vi) IT/ITeS	One	50	2 hours
	vii) Health Care	One	50	2 hours
	viii) Retail	One	50	2 hours
	ix) Travel & Tourism	One	50	2 hours
7.	W&A and P&H Education	Two	100 each	CCE

D. Internal Assessment :

- (i) The marks allotted for internal assessment in the compulsory subjects and the sixth subject shall be assessed by the school throughout the year by Continuous Comprehensive Evaluation (CCE)
- (ii) For the internally assessed subjects such as Work & Art Education and Physical & Health Education, 100% of the syllabus shall be assessed through CCE by the schools. These subjects shall be evaluated on a 5 (five) point absolute scale of grading. The qualifying grade is C. The marks in letter grades of these subjects shall have to communicated by the schools to the Board.

E. Registration:

A student who is enrolled in the secondary classes under this Board shall register himself/herself with the Board.

Students who are not registered with the Board will not be allowed to sit at the Board's examination.

F. CHANGE OF SUBJECT:

- (i) A subject which is **NOT** studied in Class IX shall **NOT** be offered as a subject of study in Class X.
- (ii) After passing Class IX, students shall **NOT** be allowed to change the 6th subject in Class X.
- (iii) In special cases, change of subject from MILs to Alternative English shall be permissible with the prior approval of the Board. Change of Alternative English to MIL is not permitted.

CRITERIA FOR QUALIFYING TO THE NEXT HIGHER CLASS :

A. Externally assessed subjects :

1. **D grade or a higher grade** in First Language (English)
2. **D grade or a higher grade** in any 4 (four) from the following :
 - i. Second Language (Hindi/Bengali/Ao/Lotha/Sumi/Tenyidie Alternative English)
 - ii. Mathematics
 - iii. Science
 - iv. Social Sciences
 - v. **any one** - Book Keeping & Accountancy, Environmental Education, Home Science, Foundation of Information Technology, Music, IT/ITeS (voc), Health Care (voc), Retail (voc), Travel & Tourism (voc).

B. Internally assessed subjects:-

- i. **D grade or a higher grade** in Work & Art Education
- ii. **D grade or a higher grade** in Physical & Health Education.

C. Attendance:-

The required minimum percentage of attendance to sit for the final examination is 80%.

A compulsory subject (excluding first language - English) in which a student has not acquired the qualifying grade can be interchanged with the sixth subject where he/she had acquired the qualifying grade for eligibility to the next higher class.

Students who do not opt for the sixth subject, in order to qualify to the next higher class, shall have to secure the minimum qualifying grades in all the 5 (five) subjects i.e. i. First Language (English), ii. Second Language, iii. Mathematics, iv. Science and v. Social Sciences.

PART – D
DESIGN OF QUESTION PAPER AND SYLLABUS
ENGLISH

Objectives:

- to communicate effectively and appropriately in real-life situations,
- to understand English effectively for study purpose across the curriculum,
- to develop and integrate the use of the four language skills listening, speaking, reading and writing,
- to speak and express idea in clear and grammatically correct English (Tenses) using appropriate punctuation and cohesion devices,
- to understand and interpret text i.e. prose, poems and stories by relating them to other material on the same theme (in their own experience and knowledge),
- to analyse, interpret and evaluate the idea in a text,
- to recycle and reinforce structure already learnt,
- to plan, organise and present ideas, expand notes into a piece of writing,
- to write a clear description e.g. of a place, an object or a system and to develop an interest and appreciation of literature.

DESIGN OF QUESTION PAPER
ENGLISH

Weightage to different forms of questions:

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	SA-I	3	7	21
2.	SA-II	4	4	16
3.	SA-III	5	4	20
4.	LA-I	7	1	7
5.	LA-II	8	2	16
	Total		18	80

Weightage level of questions:

Sl. no.	Level	Percentage	Marks
1.	Easy	25	20
2.	Average	60	48
3.	Difficult	15	12
	Total	100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl. no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	Reading	-	-	5 minutes
2.	SA-I	30-35 words	6 minutes	42 minutes
3.	SA-II	40-45 words	8 minutes	32 minutes
4.	SA-III	50-55 words	10 minutes	40 minutes
5.	LA-I	60-100 words	19 minutes	19 minutes
6.	LA-II	100-150 words	16 minutes	32 minutes
7.	Revision	-	-	10 minutes
			Total time	180 minutes

Scheme of options:

Internal choice shall be provided in:

- i. 2 (two) questions of 5 marks each
- ii. 1(one) question of 4 marks.

CLASS-IX
ENGLISH

Unit-Wise weightage

Part 'A' External

Time : 3 hours

Marks : 80

Unit	Marks
I. LITERATURE	25
a) Prose	
i. Rip Van Winkle (Washington Irving)	
ii. Dr. T.Ao - The football wizard (Dr. Senti Longkumer)	
iii. Toasted English (R.K Narayan)	
iv. A Simple philosophy(Seathl)	
v. A Christmas Carol (Charles Dickens)	
b) Poetry	
i. Lord Ullins Daughter (Thomas Campbell)	
ii. Peace (Anonymous)	
iii. Mirror (Nini Lungalang)	
iv. Echoing Green (William Blake)	
c) Drama	
The Bishops Candlesticks (Victor Hugo)	
II. READING	20
III. WRITING	20
IV. GRAMMAR	15
Total	80

Part 'B' Internal	Marks
Internal Assessment	
1. Listening & Speaking	10
2. Assignments and Formal Testing	5+5=10
Total	20
Grand total	100

PART – A: EXTERNAL

80 Marks/180 periods

Unit I: Literature

25 marks/56 periods

- Questions will test comprehension at different levels, literal, influential and evaluative.
- There will be three short answer type questions on prose for 3 marks each.
- There will be one long answer type question on prose for 5 marks with internal option.
- There will be reference to context questions followed by questions to assess critical understanding of the poems for 5 marks. There can be two parts to each question.
- Reference to context questions followed by questions to assess the overall understanding of the play for 6 marks. There can be two parts to each question.

Unit II: Reading**20 marks/45 periods**

- This section will assess Reading Comprehension. The Section will be of 20 marks and will have 3 reading passages of 8 and 4 marks followed by questions that will test the sub skills of scanning, skimming, vocabulary reinforcement, inference evaluation, and comprehension.
- The passages will be extracts from poems/factual/literacy/discursive or descriptive passages.
- There will be two reading passages in about 200 – 300 words and the other shorter one of 120 – 150 words.

Unit III: Writing**20 marks/45 periods**

1. Short composition of not more than 60 words in the form of a notice, e-mail, invitation (Informal with reply) or posters – 4 marks.
2. There will be a short answer question of up to 80 –100 words in the form of description of an event or completion of a paragraph based on inputs given – 4 marks.
3. There will be a question of 5 marks based on a visual input with a minimum of 120 words.
4. Writing of an article, speech, informal letter, story writing based on visual or verbal stimulus or both, report writing for 7 marks with a minimum of 200 words.

Unit IV: Grammar**15 marks/34 periods**

This section will assess grammar items in context for 15 marks. There can be four – five questions in this section which will test grammar items that have been dealt with in the English Class - IX textbook. Different structures such as verb forms, sentence structure, connectors, determiners, pronouns, prepositions, clauses, phrases will be tested. Grammar usage will be tested in context and not in isolated sentences.

PART – B : INTERNAL**20 marks/20 periods**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

N.B: *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:**English Class IX****- Headword Publishing Company Pvt. Ltd.
B-40, Sector 57, Noida, UP - 201301****Reference Book:****Senior School Grammar and Composition
Hester Lott****- Orient Blackswan Pvt.Ltd
1/24 , Asaf Ali road, New Delhi 110002**

ALTERNATIVE ENGLISH

Objectives:

- To equip learners and develop proficiency in the four language skills i.e. reading, writing, listening and speaking.
- To develop and express ideas in their own words with correct usage of grammar/English.
- To enrich the vocabulary and enable the students to access knowledge and information through reference skills (consulting a dictionary/thesaurus, library, internet etc.)
- To develop an interest and appreciation of literature for future career.
- To develop curiosity, creativity and to facilitate self-learning to enable them to become independent learners through extensive.
- To provide alternative for those MIL which are not fully developed and as an introduction to the study of English literature.

DESIGN OF QUESTION PAPER ALTERNATIVE ENGLISH

Weightage to different forms of questions:

Unit	Details of Topics/Sections	Types of questions	No. of questions	Marks	Total Marks
Unit I – Reading	- One unseen passage of 300 words - One literary piece/poem	VSA	10	10x1=10	10
Unit II – Writing and Applied Grammar	- Two writing items in about 100-150 words, i.e. a newspaper report, article, story writing, dialogue. - Grammar section will assess grammar items in context.	LA II	2	2x6=12	12
		SA II	4	4x2=8	8
Unit III – Literature	Prose/Poetry	MCQ	8	8x1=8	35
		SA I	3	3x2=6	
		SA II	4	4x4=16	
		LA I	1	1x5=5	
	Drama/Fiction	MCQ	2	2x1=2	15
		SA I	2	2x2=4	
		SA II	1	1x4=4	
		LA I	1	1x5=5	

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	VSA	1	10	10
3.	SA-I	2	9	18
4.	SA-II	4	5	20
5.	LA-I	5	2	10
6.	LA-II	6	2	12
	Total		38	80

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	20
2.	Average	60	48
3.	Difficult	15	12
	Total	100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	Reading	-	-	10 minutes
2.	MCQ	-	2 minutes	20 minutes
3.	VSA	5-10 words	2 minutes	30 minutes
4.	SA-I	20-25 words	3 minutes	21 minutes
5.	SA-II	40-50 words	8 minutes	32 minutes
6.	LA-I	50-60 words	12 minutes	36 minutes
7.	LA-II	100-150 words	20 minutes	20 minutes
8.	Revision	-	-	11 minutes
			Total time	180 minutes

Scheme of options:

Internal choice shall be provided in:

- i. 1(one) question of 5 marks.
- ii. 1(one) question of 10 marks.

CLASS – IX
ALTERNATIVE ENGLISH

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
Unit		Marks
Unit I - Reading skills		10
Unit II - Writing Skills and Applied Grammar		20
Unit III - Literature		
1. Prose		20
2. Poetry		15
3. Drama		15
Total		80
Part 'B' Internal		20
Grand total		100

PART – A: EXTERNAL

80 Marks/180 periods

Unit I: Reading

10 Marks/20 Periods

This section will assess Reading Comprehension. The section will be of 10 marks and will have 1 (one) reading passage i.e. factual or discursive in about 300 words and 1 (one) literary passage or poem followed by VSA type of questions that will test the sub skills of scanning, skimming, vocabulary re-enforcement and comprehension.

Unit II: Writing Skills and Applied Grammar

12+8=20 Marks/50 Periods

2 (two) writing items in about 100-150 words for 6 marks each e.g. a newspaper report, article, story writing, dialogue.

Grammar section will assess grammar items in context for 8 marks. There can be two to four questions which will test grammar items through the following type of ways:

- Gap filling with one/two words to test articles, auxiliaries, tenses.
- Editing on Omission covering reported speech, punctuation, tenses.
- Transformation of Sentences in context, Tenses and Reported Speech.

Unit III: LITERATURE:

50 Marks/110 Periods

PROSE

1. The Rule of the Road (A.G. Gardiner)
2. The Ogress and the Two Orphans (R. Luikham)
3. Speech by APJ Abdul Kalam
4. The Tunguska Event (Carl Sagar)
5. The Devoted Friend (Oscar Wilde)

POETRY

1. Sonnet- To Science (Edgar Allan Poe)
2. Character of a happy life (Sir H. Wotton)
3. Mother's Tears (Dr. Sedengulie Nagi)
4. The Soul's Prayer (Sarojini Naidu)

DRAMA

The Tale of Ivan the Fool

GRAMMAR

1. Auxiliaries
2. Articles
3. Tenses
4. Reported Speech in extended texts
5. Punctuation

PART – B : INTERNAL

20 marks

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

***N.B:** It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:

Alternative English Class IX

***- Orient Blackswan, Pvt. Ltd.
1/24 , Asaf Ali road, New Delhi 110002***

Reference Book:

***Senior School Grammar and Composition
Hester Lott***

***- Orient Blackswan Pvt.Ltd
1/24 , Asaf Ali road, New Delhi 110002***

MAJOR/MODERN INDIAN LANGUAGES (MILs)

DESIGN OF QUESTION PAPER

Weightage to different forms of questions:

Section	Details of Topics/Sections	Types of questions	No. of questions	Marks	Total Marks
Section A– Reading	One unseen passage of 300 – 400 words. There will be questions to test vocabulary and grammar.	VSA	10	10x1=10	10
Section B– Writing	- Informal Letter Writing/ Story Writing - Advertisement/Notice	LA II SA II	1 1	1x6=6 1x4=4	10
Section C– Grammar	Grammar Translation	MCQ VSA VSA	5 10 5	5x1=5 10x1=10 5x1=5	20
Section D– Literature	Prose Poetry	MCQ SA I SA II LA I MCQ SA I SA II LA I	3 4 1 1 2 2 1 2	3x1=3 4x2=8 1x4=4 1x5=5 2x1=2 2x2=4 1x4=4 2x5=10	20 20

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	VSA	1	25	25
3.	SA - I	2	6	12
4.	SA - II	4	3	12
5.	LA - I	5	3	15
6.	LA- II	6	1	6
	Total		48	80

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	20
2.	Average	60	48
3.	Difficult	15	12
	Total	100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	MCQ	-	2 minutes	20 minutes
2.	VSA	5-10 words	2 minutes	50 minutes
3.	SA - I	20-25 words	3 minutes	18 minutes
4.	SA - II	40-50 words	8 minutes	24 minutes
5.	LA - I	60-90 words	12 minutes	36 minutes
6.	LA - II	100-150 words	17minutes	17 minutes
7.	Reading of Question Paper & Revision	-	-	15 minutes
			Total time	180 minutes

Scheme of options:

There will be no overall choice. However, internal choice shall be provided in;

- i. 2(two) questions of 5 marks each.
- ii. 1(one) question of 4 marks.

MODERN INDIAN LANGUAGE: AO

Objective:

- Asen tetsü taso oshiji shitak angateta, züngtetsü, zülutetsü aser jempitetsü.
- Taküm nung pei kin sobaliba aser awashi angazüka benshitsü.
- Asen Ao oshi Arrla shitak wazüka ayutsü asoshi.

CLASS-IX MODERN INDIAN LANGUAGE: AO

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
Unit		Marks
SECTION A - Reading		10
SECTION B - Writing		10
SECTION C - Grammar		20
SECTION D - Literature		
1. Prose		20
2. Poetry		20
Total		80
Part 'B' Internal		20
Grand total		100

PART - A : EXTERNAL

80 Marks/180 Periods

SECTION A – READING

10 marks/20 periods

One unseen passage of 300 – 400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING

10 marks/20 periods

1. Informal Letter Writing/Story Writing
2. Advertisement/Notice

SECTION C – GRAMMAR

20 marks/40 periods

Grammar and translation:

1. Züngdangba (Numbers)
2. Amilem (Person)
3. Zülumen (Spelling & correction of errors)
4. Orrlem (olem)
5. O Meyipzük (Translation)

SECTION D – LITERATURE

40 marks/100 periods

Prose:

1. Awashi Tetezü Aser Amshiren
2. Awashi Yimya Balala Amshiren
3. Shiruru Aser Meinchir Tesendaktep
4. Sobaliba Tzüpokdak
5. Kaket Riju Nung Awashi
6. Tekülemdak Awashi

Poetry:

1. Oagi Alima Ka lir
2. Tsüa! Aukoshi
3. Nüknürar Melembu
4. Impur
5. Ochinaro Tia
6. Arishir Nungshi Ken

PART – B : INTERNAL**20 marks**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed textbooks:

1. *Akümlir Mongsong, 2005* – *Ao Senden Literature Board, Mokokchung*
2. *Orrlem (Ao Naga Grammar)* – *Ao Senden Literature Board, Mokokchung*
M.L. Wati Jamir
3. *Aor Lokti Puti Rajem(Vol. 1)* – *Ao Senden Literature Board, Mokokchung*
Prof. A. Lanunungsang
4. *Ao Oshi Tensenyim I* – *Ao Senden Literature Board, Mokokchung*

MODERN INDIAN LANGUAGE: LOTHIA

Objectives:

- Erantolan lo choka osi tssohung lithokvü tsükona.
- Erantolan lo choka lio ji yakchia ochyu – ovüing mhonkatokvü tsükona.
- Ekhae jiang, yitsüingkyarhyu kyonkata ntsi-i mhonkata yithokvü.
- Yi – nsan lanka mezhü shiang esüa: engae ekhi, nsanchi, ekhao tona eramo to jianglo tsüka-rankata yithkvü tsükona.
- Onte etancho yilona mhom hatonchethokvü tsükona.
- Ekhao tona eramo tolo chakcheta nzokathokvü tsükona.

CLASS-IX

MODERN INDIAN LANGUAGE: LOTHIA

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
Unit		Marks
SECTION A - Reading		10
SECTION B - Writing		10
SECTION C - Grammar		20
SECTION D - Literature		
1. Prose		20
2. Poetry		20
	Total	80
Part 'B' Internal		20
	Grand total	100

PART – A: EXTERNAL

80 Marks/180 Periods

SECTION A – READING

10 marks/20 periods

One unseen passage of 300- 400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING

10 marks/20 periods

1. Informal Letter Writing/ Story Writing
2. Advertisement/ Notice

SECTION C – GRAMMAR

20 marks/40 periods

Grammar and translation:

1. Etümtokyi (Adjective)
2. Zonkayi (Structural words)
3. Myingthong (Pronoun)
4. Yishen (Conjunction)
5. MÜchak (Number)
6. Ovon (Voices)
7. Echakyi (Idioms)
8. Engao (Interrogative)
9. Yintüp (Negative)
10. Etsyukayi (Article)
11. Translation

SECTION D – LITERATURE**40 marks/100 periods****Prose:**

1. Nrio Motsü
2. Hümjonlijon
3. Era Loroe
4. Lijao Otsolov Motsü
5. Kyong Tona Etsüi to Noktademo Ji Motsü

Poetry:

1. Süpen Thera
2. Onkhümoe Loroe Retacho
3. Osümthüangi Ori Tssotacho
4. Ronsi Etsa
5. Tiyi Enong

PART – B : INTERNAL**20 marks**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed textbooks:

1. *Kyongyiran Motsü Ekhürhyucho – Part I & II - Kyong Academy, Wokha by K.R. Murry*
2. *Kyong Chungiyi Ekhürhyucho - Kyong Academy, Wokha by K.R. Murry*
3. *Kyong Yinsalan (Grammar) - Kyong Academy, Wokha by K.R. Murry*
4. *Anglo Lotha Vocabulary - Kyong Academy, Wokha*
5. *Outline Grammar of Lotha Naga Language - Kyong Academy, Wokha by W.E. Witter*
6. *Kyong Yi Chüm kalan (Spelling Pattern) - Kyong Academy, Wokha by K.R.Murry*

MODERN INDIAN LANGUAGE: SÜMI

Objectives:

- Mütsümisheyi chilü eno philu kepu ghola lono qophenikeu.
- Akivishi philu eno yelu kepu ghola lono qophenikeu.
- Kiphimiqo pelo panongu kutoshino ililai philu keu vechewono akighithi alau phulupenikeu.
- Kiphimiqo pelono nilikhi nizatsa achipi eno mütsümisheyi pilu kepu shi qophe nikeu.
- Kiphimiqo pelo nizatsa kiu ghola lono yepe puanikeno vethalu eno hepho kupha lupenikeu.
- Nizatsa kipi ghola inikiviu lono pilu eno peithalu penikeu.
- Nizatsa – tsayiko kighithi akishe tsü eno gihulu penike.
- Vethakulu kümsükulu iquphe kulupu ghola lono qophenikeu.
- Kiphimiqo kükümsü kupulo, nizatsa phikutolu keu vechewono aghakiqi shilu penikeu.
- Nizatsa – tsayiko eno mhesho mheghi nikutsashi kümsülü penikeu ghola lono qophenikeu.
- Nizatsa – tsayiko eno mhesho mheghi niktssashi kümsülü penikeu ghola lono qophenikeu.
- Akiyethi qo kimyemi tsa gholano kumono nizatsa gholauno qophenikeu.
- Sümi tsalo akiyethi ‘ü’ alla süno Sümi tsa ipighilu akeu meküa ithi penike.
- Putüta ko agha tsa ghola hila pimono aqo lono qokiphe kaku mlano qophe akeu kiqi lono pilu eno yeh moayesa keu.
- Kütami shiyeh tsah. Sümono Nizatsau likhino küputsa kile peni keu ghola lono qopheni keu.

CLASS-IX MODERN INDIAN LANGUAGE: SÜMI

Unit-Wise weightage

Part ‘A’ External

Time : 3 hours

Marks : 80

Unit	Marks
I. SECTION A - Reading	10
II. SECTION B - Writing	10
III. SECTION C - Grammar	20
IV. SECTION D - Literature	
1. Prose	20
2. Poetry	20
Total	80
Part ‘B’ Internal	20
Grand total	100

PART - A : EXTERNAL
SECTION A – READING

80 Marks/180 Periods

10 marks/20 periods

One unseen passage of 300-400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING

10 marks/20 periods

1. Informal Letter Writing/ Story Writing
2. Advertisement/Notice

SECTION C – GRAMMAR

20 marks/40 periods

Grammar and translation:

1. Amqo Kini Phikide Nikeu
2. Tsashibe Kikije
3. Kikihi Tsashibe
4. Atsajo Kikije
5. Timi
6. Ngomichi
7. Pighi Vehu

SECTION D – LITERATURE

40 marks/100 periods

Prose:

1. Aesop Xü Ghili
2. Tuluni Pineh
3. Baibel Lo Chighi Saje
4. Akithi
5. Khumtsah Amighiu
6. Kughato Sukhai

Poetry:

1. Inakha Eno Ghonili
2. Anipu Shikipili
3. Asho Kighille
4. Kusakusho Leshe
5. Apu Kische Anga Kische

PART – B : INTERNAL

20 marks

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

***N.B:** It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbooks:

- | | | |
|--|---|---|
| 1. <i>Kichitssathoh</i> | - | <i>Sumi Literature Board, Zunheboto</i> |
| 2. <i>Küghakiche Eno Leshe</i>
<i>I. Lozhevi Sema</i> | - | <i>Sumi Literature Board, Zunheboto</i> |
| 3. <i>Apu Assü Leshe</i>
<i>(Mother book of Sümi Poems)</i> | - | <i>Sumi Literature Board, Zunheboto</i> |
| 4. <i>Sumi Tsayeh (Grammar)</i>
<i>I. Lozhevi Sema</i> | - | <i>Sumi Literature Board, Zunheboto</i> |

MODERN INDIAN LANGUAGE: TENYIDIE

Objectives:

- Rūnyū mu phrūkecū nu puocapuola silieketuo chūlieketuo la.
- Pu mu thulie kevi chūlieketuo la.
- Kephrūmia bu u nei di u thuo u die phrū khropie mhasilieketuo la.
- Dieu puocū touu, puotouu mu puoca touu nunu silieketuo chūlieketuo la.
- Kephrūmia dieca chū pekralie mu sūu puotou nunu selieketuo chūlieketuo la.
- Uko bu uko diemvū rhulieketuo la.
- Uko bu uko die zivi, noule mu noudo se parlieketuo la.
- Uko bu uko die, diemvū mu kelhouzho-u uko vie ūkecū lelieketuo la mu
- U Tenyimia kephrūnuomiako bu u pfhe mu ūtsali puoma kereko si pesou salieketuo la.

CLASS-IX MODERN INDIAN LANGUAGE: TENYIDIE

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
		Marks
SECTION A - Reading		10
SECTION B - Writing		10
SECTION C - Grammar		20
SECTION D – Literature		
1. Prose		20
2. Poetry		20
	Total	80
Part 'B' Internal		20
	Grand total	100

PART – A: EXTERNAL

80 Marks/180 Periods

SECTION A – READING

10 marks/20 periods

One unseen passage of 300-400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING

10 marks/20 periods

1. Informal Letter Writing/ Story Writing
2. Advertisement/Notice

SECTION C – GRAMMAR

20 marks/40 periods

Grammar and translation:

1. Diesouko (A to K)
2. Kekerūkecūko Thu Kemezhūkecū
3. Translation
4. Diekhu mu Dierozu

SECTION D – LITERATURE**40 marks/100 periods****Prose:**

1. Ukepenuopfü Themia Pete Khrie Ketou zo
2. Dieze
3. Thenu Samipfü
4. Chütuo, Chü Beituo, Chülietuo
5. Roviü I, II, III
6. Zue U Chü Penyawaya

Poetry:

1. Nhicu Zha
2. N Dzüzei Hie
3. Lelieci
4. Keliya Zolie
5. No Kevitho-u

PART – B : INTERNAL**20 marks**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed textbooks:

- | | | |
|---|---|--|
| 1. <i>Noudu Dze
Dino & Viswedel</i> | - | <i>Ura Academy Publication, Kohima</i> |
| 2. <i>Idiomatic Expression
Rüzhükhrie Sekhose</i> | - | <i>Ura Academy Publication, Kohima</i> |
| 3. <i>Diekhu mu Dierozu
Shürhozeli</i> | - | <i>Ura Academy Publication, Kohima</i> |

MAJOR INDIAN LANGUAGE: BENGALI

OBJECTIVES:

- To develop the abilities of listening and reading with comprehension.
- To develop the abilities of oral and written expression.
- To enable the students to read independently for knowledge and recreation.
- To develop the abilities of using language correctly, accurately and effectively.
- To enable the students to understand the structure of the language and to analyse it.
- To enrich the vocabulary of the students and to enable them to use it more effectively.
- To enable them to appreciate literature of the language.
- To develop their aesthetic sense, originality, imagination and creativity.
- To sublimate their feelings and emotions through the studies of the literature of the language.
- To develop in them the feeling of belongingness to the language-literature and culture.
- To pay homage or honour to their mother tongue.
- To encourage to integrate various forms of creative expression from a story or poem.
- The language offers some unique opportunities – stories, poems, linking children to their cultural heritage and also to give them an opportunity to understand their own experiences and to develop sensitivity to others.
- Through grammar, students can develop their knowledge about the source of words; acquire correct ideas about grammatical errors which are counted as common mistakes.

CLASS-IX

MAJOR INDIAN LANGUAGE: BENGALI

Unit-Wise weightage

Part 'A' External		Time : 3 hours	Marks : 80
Unit			Marks
I.	SECTION A - Reading		10
II.	SECTION B - Writing		10
III.	SECTION C - Grammar		20
IV.	SECTION D - Literature		
	1. Prose		20
	2. Poetry		20
Total			80
Part 'B' Internal			20
Grand total			100

PART – A: EXTERNAL**80 Marks/180 Periods****SECTION A – READING****10 marks/20 periods**

One unseen passage of 300-400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING**10 marks/20 periods**

1. Informal Letter Writing/Story Writing
2. Advertisement/Notice

SECTION C – GRAMMAR**20 marks/40 periods****Grammar and translation:**

1. Barno O Dhwani
2. Swara O Byanjan Sandhi
3. Karok: Bibhokti (Case ending)
4. Idioms (from Akka Pawa to Navamir Pantha pg. 290-301, New Edition, 2002, Bani Bichitra)
5. Anubad (Translation)

SECTION D – LITERATURE**40 marks/100 periods****Prose:**

- | | | |
|-------------------|---|-------------------------------|
| 1. Pitri Sneha | – | Dwijendra Lal Roy |
| 2. Chhuti | – | Rabindranath Tagore |
| 3. Jagrato Devata | – | Banophul |
| 4. Ramer Sumati | – | Sharat Chandra Chattapaddhyay |
| 5. Bharat Barsho | – | S. Wejed Ali |

Poetry:

- | | | |
|------------------|---|---------------------|
| 1. Sadhok | – | Man Kumari Basu |
| 2. Khai Khai | – | Sukumar Ray |
| 3. Dhoola Mandir | – | Rabindranath Tagore |
| 4. Kabor | – | Jaseem Uddin |
| 5. Amra | – | Satyendranath Dutta |

PART – B : INTERNAL**20 marks**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed Textbooks:

- | | |
|------------------------------------|--|
| 1. <i>Sahitya Sourabh</i> | - <i>The Assam State Text Book Production and Publication Corporation Limited, Guwahati - 781003</i> |
| 2. <i>Bani Bichitra Pijush Dey</i> | - <i>Bani Prakashani, College Hostel Road, Guwahati - 781003</i> |

MAJOR INDIAN LANGUAGE: HINDI

Objectives:

- Matri Bhasha ko sunane our padhane ke sath-sath bothan ke kshamta our yogyata ka vikas karana.
- Moukhik our lekhan abityati ko vikasit karna
- Sambado se gyan our manoranjan ke kshetra me atmnirbhar karna.
- Bhasha ke sudh our prabhavsali prayog karne ke kshamta ko vikshit karna.
- Apni Matri Bhasha tatha uski sanrachana ke sahi rup se samjh kar uska vishlesan kar sake.
- Shabd gyan ka vridhi karna jisase unka sahi rup se prayog kar sake.
- Matri Bhasha ke prati pathan-pathan ke liye protsahit karna.
- Kalatmak moulik, kalpnik our rachanatmak prabriti ko vikashit karna.
- Matri Bhasha tathu uske sahitya ke adhyan ke dwara bhawnao our sadbhaw ka parimarjan our vikash karna.
- Matri Bhasha uski sahitya samagri our sanskriti ke prati ruchi jagrit karna.

CLASS-IX MAJOR INDIAN LANGUAGE: HINDI

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
Unit		Marks
I. SECTION A - Reading		10
II. SECTION B - Writing		10
III. SECTION C - Grammar		20
IV. SECTION D - Literature		
1. Prose		20
2. Poetry		20
Total		80
Part 'B' Internal		20
Grand total		100

PART – A: EXTERNAL

80 Marks/180 Periods

SECTION A – READING

10 Marks/20 Periods

One unseen passage of 300-400 words. There will be questions to test vocabulary and grammar.

SECTION B – WRITING

10 Marks/20 Periods

1. Informal Letter Writing/Story Writing
2. Advertisement/Notice

SECTION C – GRAMMAR

20 Marks/40 Periods

Grammar and Translation:

1. Sangya Aur Bhed
2. Sarvanaam Aur Bhed
3. Visheshan Aur Bhed
4. Kriya Aur Bhed
5. Kriyavisheshan Aur Bhed
6. Upsarg Aur Pratyay
7. Anek Shabdon Ke Liye Ek Shabd
8. Muhavare Asur Lokoktiyan
9. Translation

SECTION D – LITERATURE**40 Marks/100 Periods****Prose:**

1. Ped Ki Baat
2. Pulie Badze
3. Vyakti Ka Punar Nirman
4. Bhikharin
5. Mera Bachpan
6. Bhagyashali Din

Poetry:

1. Kabir Ke Dohe
2. Tulsi Ke Dohe
3. Bharat Varsh
4. Vasant Sambhashan
5. Bhagwaan Ke Dakiye
6. Tab Yaad Tumhari Ati Hai

PART – B : INTERNAL**20 marks**

- | | |
|------------------------|----|
| 1. Conversation skills | 10 |
| 2. Assignments | 5 |
| 3. Formal testing | 5 |

Folk songs may be assessed under conversation skills. Painting, drawing or crafts indigenous to the tribe may be assessed under assignment.

N.B: *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed Textbook:**Bhasha Sarita Part I for Class IX****- Nagaland Bhasha Parishad, Kohima****S.K.Pathak, Zakienei Khoubve & G.K. Sinha**

MATHEMATICS

Objectives:

The broad objectives of teaching of Mathematics at secondary stage are to help the learners to:

- consolidate the Mathematical knowledge and skills acquired at the upper primary stage.
- acquire knowledge and understanding particularly by way of motivation and visualization, of basic concepts, terms, principles and symbols and underlying processes and skills.
- develop mastery of basic algebraic skills.
- develop drawing skills.
- feel the flow of reasons while proving a result or solving a problem.
- apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- to develop positive ability to think, analyze and articulate logically.
- to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of sex biases;
- to develop necessary skills to work with modern technological devices such as calculators, computers, etc;
- to develop interest in Mathematics as a problem-solving tool in various fields for its beautiful structures and patterns, etc;
- to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics;
- to develop interest in the subject by participating in related competitions;
- to acquaint students with different aspects of Mathematics used in daily life;
- to develop an interest in students to study Mathematics as a discipline.

DESIGN OF QUESTION PAPER MATHEMATICS

Weightage to different forms of questions:

Section	Forms of questions	Marks for each question	No. of questions	Total marks
A	MCQ	1	10	10
B	SA - I	2	5	10
C	SA - II	3	10	30
D	LA	5	6	30
Total			31	80

Weightage level of questions:

Sl. no.	Level	Percentage	Marks
1.	Easy	20	16
2.	Average	60	48
3.	Difficult	20	16
Total		100	80

The expected time to be taken under different section shall be as follows:

Sl. no.	Section	Expected time for each question	Total expected time
1.	Reading the question paper	-	10 minutes
2.	A	2 minutes	20 minutes
3.	B	4 minutes	20 minutes
4.	C	6 minutes	60 minutes
5.	D	10 minutes	60 minutes
6.	Revision	-	10 minutes
		Total time	180 minutes

Scheme of options:

- Internal choice shall be provided in:
 - any 5(five) questions of 3 marks in Section C
 - all 6 (six) questions of 5 marks in Section D
- The internal choice questions shall be set from the same unit with the same difficulty level.
- The question setter has the liberty to modify textual questions but has to set questions within the purview of the syllabus.

CLASS-IX
MATHEMATICS

Unit-Wise weightage

Part 'A' External

Time : 3 hours

Marks : 80

Unit	Marks
I. Number System	6
II. Algebra	18
III. Coordinate Geometry	6
IV. Geometry	22
V. Mensuration	14
VI. Statistics & Probability	14
Total	80
Part 'B' Internal - Practical	20
Grand Total	100

PART – A: EXTERNAL

80 Marks/180 Periods

Unit I : NUMBER SYSTEM

6 marks

1. Real Numbers

12 Periods

Review of representation of natural numbers, integers, rational numbers on the number line. Representation of terminating/non-terminating recurring decimals on the number line through successive magnification.

Rational numbers as recurring/terminating decimals.

Examples of non-recurring/non-terminating decimals such as $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, etc. Existence of non-rational numbers (irrational numbers) such as $\sqrt{2}$, $\sqrt{3}$ and their representation on the number line. Explaining that every real number is represented by a unique point on the number line and conversely, every point on the number line represents a unique real number.

Existence of \sqrt{x} for a given positive real number x (visual proof to be emphasized).

Definition of n^{th} root of a real number.

Rationalization (with precise meaning) of real numbers of the type (and their combinations)

$\frac{1}{a + b\sqrt{x}}$ and $\frac{1}{\sqrt{x} + \sqrt{y}}$, where x & y are natural numbers and a & b are integers.

Unit II : ALGEBRA

18 marks

1. Polynomials

22 periods

Definition of a polynomial in one variable, its coefficient with examples and counter examples, its terms, zero polynomial. Degree of a polynomial. Constant, linear, quadratic and cubic polynomials; monomials, binomials, trinomials. Factors and multiples. Zeros/roots of a polynomial/equation. State and motivate the Remainder Theorem with examples and analogy to integers. Statement and proof of the Factor Theorem. Factorization of $ax^2 + bx + c$, $a \neq 0$ where a , b and c are real numbers, and of cubic polynomials using the Factor Theorem.

Recall of algebraic expressions and identities. Further verification of identities of the type:

$$(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx,$$

$$(x \pm y)^2 = x^2 \pm y^2 \pm 2xy(x \pm y), \quad x^3 \pm y^3 = (x \pm y)(x^2 \pm xy \pm y^2),$$

$$x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$$

and their use in factorization of polynomials. Simple expressions reducible to these polynomials.

2. Linear Equations in Two Variables

12 Periods

Recall of linear equations in one variable. Introduction to the equation in two variables. Prove that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers, plotting them and showing that they seem to lie on a line. Examples, problems from real life, including problems on Ratio and Proportion and with algebraic and graphical solutions being done simultaneously.

Unit III : COORDINATE GEOMETRY

6 marks

1. Coordinate Geometry

10 Periods

The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane, graph of linear equations as examples; focus on linear equations of the type $Ax + By + C = 0$, by writing it as

$$y = mx + c$$

Unit IV : GEOMETRY

22 marks

1. Introduction to Euclid's Geometry

4 Periods

History - Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. The five postulates of Euclid. Equivalent versions of the fifth postulate. Showing the relationship between axiom and theorem, for example:

(Axiom) 1. Given two distinct points, there exists one and only one line through them.

(Theorem) 2. (Motivate) Two distinct lines cannot have more than one point in common.

2. Lines and Angles

16 Periods

- (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180° and the converse.
- (Motivate) If two lines intersect, the vertically opposite angles are equal.
- (Motivate) Results on corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines.
- (Motivate) Lines, which are parallel to a given line, are parallel.
- (Prove) The sum of the angles of a triangle is 180°
- (Motivate) If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles.

3. Triangles

22 Periods

- (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).
- (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).
- (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).
- (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.
- (Prove) The angles opposite to equal sides of a triangle are equal.
- (Motivate) The sides opposite to equal angles of a triangle are equal.
- (Motivate) Triangle inequalities and relation between 'angle and facing side' inequalities in triangles.

4. Quadrilaterals

12 Periods

1. (Prove) The diagonal divides a parallelogram into two congruent triangles.
2. (Motivate) In a parallelogram, opposite sides are equal and conversely.
3. (Motivate) In a parallelogram, opposite angles are equal and conversely.
4. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.
5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely.
6. (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.

5. Areas

6 Periods

Review concept of area, recall area of a rectangle.

1. (Prove) Parallelograms on the same base and between the same parallels have the same area.
2. (Motivate) Triangles on the same base and between the same parallels are equal in area and its converse.

6. Circles

15 Periods

Through examples, arrive at definitions of circle related concepts, radius, circumference, diameter, chord, arc, subtended angle.

1. (Motivate) Equal chords of a circle subtend equal angles at the center and (motivate) its converse.
2. (Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord.
3. (Motivate) There is one and only one circle passing through three given non-collinear points.
4. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center(s) and conversely.
5. (Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle.
6. (Motivate) Angles in the same segment of a circle are equal.
7. (Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle.
8. (Motivate) The sum of the either pair of the opposite angles of a cyclic quadrilateral is 180° and its converse.

7. Construction

10 Periods

1. Construction of bisectors of line segments & angles 60° , 90° , 45° angles etc, equilateral triangles.
2. Construction of a triangle given its base, sum/difference of the other two sides and one base angle.
3. Construction of a triangle of given perimeter and base angles.

Unit V : MENSURATION

14 marks

1. Areas

5 Periods

Area of a triangle using Hero's formula (without proof) and its application in finding the area of a quadrilateral.

2. Surface Areas and Volumes**10 Periods**

Surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.

Unit VI : STATISTICS & PROBABILITY**14 marks****1. Statistics****15 Periods**

Introduction to Statistics : Collection of data, presentation of data - tabular form, ungrouped/grouped, bar graphs, histograms (with varying base lengths), frequency polygons, qualitative analysis of data to choose the correct form of presentation for the collected data. Mean, median, mode of ungrouped data.

2. Probability**9 Periods**

History, Repeated experiments and observed frequency approach to probability. Focus is on empirical probability. (A large amount of time to be devoted to group and to individual activities to motivate the concept; the experiments to be drawn from real-life situations, and from examples used in the chapter on statistics).

PART – B: INTERNAL**Practical**

Sl. No.	Areas of assessment	Marks
1.	Practical	10
2.	Project work	5
3.	Formal testing	5
	Total :	20

N.B: *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:**Mathematics Class IX**

**- NCERT Textbook (Nagaland Edition)
Distributed by Goyal Brothers Prakashan**

Mathematics Laboratory Manual Class IX - Goyal Brothers Prakashan

**11/1903, Chuna Mandi, Paharganj,
New Delhi – 110 055**

SCIENCE

Objectives:

- to understand the basic concepts, principles and laws of science
- to apply basic scientific principles in finding solutions to problems related to agriculture, energy, health, nutrition, etc
- to develop problem- solving and decision- making skills
- to inculcate values that underline the study of science
- to develop and understand various processes of the environment and concern for its conservation and preservation
- to understand and appreciate the joint enterprise of science, technology and society
- to acquire process skills which form part of the attitude for developing a scientific temper
- to develop certain manipulative skills which are required in day-to-day situations
- to develop scientific attitude which will equip them to continue science education throughout life

DESIGN OF QUESTION PAPER SCIENCE

Weightage to different forms of questions:

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	VSA	1	5	5
3.	SA -I	2	5	10
4.	SA -II	3	10	30
5.	LA	5	5	25
	Total		35	80

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	20
2.	Average	60	48
3.	Difficult	15	12
	Total	100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	Reading	-	-	10 minutes
2.	MCQ	-	2 minutes	20 minutes
3.	VSA	one word/one sentence	2 minutes	10 minutes
4.	SA-I	20-30 words	4 minutes	20 minutes
5.	SA-II	40-60 words	5 minutes	50 minutes
6.	LA	70-100 words	12 minutes	60 minutes
7.	Revision	-	-	10 minutes
			Total time	180 minutes

Scheme of options:

There will be no overall choice. However, internal choice shall be provided in:

- i. 4 (four) questions of 3 marks each
- ii. 4 (four) questions of 5 marks each.

Numericals and diagrams:

- i. Weightage of about 5 (five) marks shall be given for numericals.
- ii. Weightage of about 8 (eight) marks shall be given for diagrams.

Typology of questions:

In order to assess different abilities related to the subject, the question paper shall include open-ended questions; drawing/illustrations based questions and questions testing higher order thinking skills of the learners.

Class – IX
SCIENCE

Unit-wise weightage

Part ‘A’ External

Time: 3 hours

Marks: 80

Unit	Marks
I Matters –Nature and Behaviour	20
II Organisation in the living world	16
III Motion, Force, Work and Sound	23
IV Health and Diseases	9
V Natural Resources	12
Total	80
Part ‘B’ Internal	20
Grand Total :	100

PART – A : EXTERNAL

80 marks/180 periods

Unit I : Matter – Nature and Behaviour

- | | | | | |
|----|----------------------------|---|--|--------------------|
| 1. | Matter in Our Surroundings | } | | 9 marks/23 periods |
| 2. | Is Matter Around Us Pure ? | } | | |

- | | | | | |
|----|-----------------------|---|--|---------------------|
| 3. | Atoms and Molecules | } | | 11 marks/27 periods |
| 4. | Structure of the Atom | } | | |

Unit II : Organisation in the Living World

- | | | | | |
|----|-------------------------------|---|--|---------------------|
| 5. | The Fundamental Unit of life | } | | 16 marks/36 periods |
| 6. | Tissues | } | | |
| 7. | Diversity in Living Organisms | } | | |

Unit III : Motion, Force, Work and Sound

- | | | | | |
|-----|--------------------------|---|--|---------------------|
| 8. | Motion | } | | 13 marks/34 periods |
| 9. | Force and Laws of Motion | } | | |
| 10. | Gravitation | } | | |

- | | | | | |
|-----|-----------------|---|--|---------------------|
| 11. | Work and Energy | } | | 10 marks/24 periods |
| 12. | Sound | } | | |

Unit IV : Health and Diseases

- | | | | | |
|-----|--------------------|---|--|--------------------|
| 13. | Why do we Fall ill | - | | 9 marks/10 periods |
|-----|--------------------|---|--|--------------------|

Unit V : Natural Resources

- | | | | | |
|-----|-------------------------------|---|--|---------------------|
| 13. | Natural Resources | } | | 12 marks/26 periods |
| 14. | Improvement in Food Resources | } | | |

PART- B : INTERNAL

-

20 Marks

Unit-I : Matter – Nature and Behaviour

1. *Matter in Our Surroundings*: Physical nature of matter, characteristics of particles of matter, States of Matter, Change of State, Evaporation.
2. *Is Matter Around us Pure*: Mixtures, types of mixtures, solution, suspension and colloid, separation of components of a mixture, elements, compounds.
3. *Atoms and Molecules*: Laws of Chemical Combination, Atoms, atomic mass, molecules, writing chemical formulae, formulae of simple compounds, molecular mass and mole concept.
4. *Structure of the Atom*: Structure of an Atom, distribution of electrons in shells, valency, atomic number and mass number, Isotopes, Isobars.

Unit-II : Organisation in the Living World

5. *The Fundamental unit of Life*: Structural Organisation of a Cell, Cell organelles and functions.
6. *Tissues*: Plant tissues- structure and functions (meristematic and permanent tissues), animal tissues- structure and functions (epithelial, connective, muscular and nervous tissues).
7. *Diversity in Living Organisms*: General idea of classification, classification with characteristics and examples in plants and animals.

Unit-III : Motion, Force, Work and Sound

8. *Motion*: Motion- along a straight line, uniform and non-uniform motion, rate of motion, rate of change of velocity, graphical representation of motion, distance- time graphs, velocity-time graphs, derivation of equations of motion by graphical method, uniform circular motion.
9. *Force and laws of Motion*: Motion- First law of Motion, Inertia and mass, Second Law of Motion, Third Law of Motion, Conservation of Momentum.
10. *Gravitation*: Gravitation, Universal law of Gravitation, Free fall, acceleration due to gravity, mass, weight, thrust and pressure, buoyancy, Archimedes' Principle, Relative density.
11. *Work and Energy*: Work-concept, work done by a constant force, energy- kinetic and potential energy, law of conservation of energy, rate of doing work, commercial unit of energy.
12. *Sound*: Sound- production and propagation of sound, sound waves- characteristics, speed of sound, reflection of sound, echo, range of hearing, applications of ultrasound, SONAR, structure of human ear (auditory aspect only).

Unit-IV : Health and Diseases

13. *Why do we fall ill*: Health and its importance, personal and community health, disease and its causes, acute and chronic, communicable and non-communicable diseases, agents, means of spread, symptoms, treatment and prevention.

Unit-V : Natural Resources

14. *Natural Resources*: Resources- Air, water, soil, minerals, Biogeochemical cycles- water cycle, Nitrogen cycle, carbon cycle, oxygen cycle, Greenhouse effect, Ozone layer.
15. *Improvement in Food Resources*: Food resources- Improvement in crop yields, crop variety improvement, crop production management- nutrient management, manure, fertilizers, crop protection management, Animal husbandry- cattle farming, poultry farming, egg and boiler production, fish production, bee-keeping.

PART – B: INTERNAL**20 marks**

Area of Assessment	Marks
1. Experiments/Activities	10
2. Records	5
3. Formal Test	5
Total	20

Experiments and activities should be conducted alongside the concepts taught in theory classes. The students should be assessed on a continuous and comprehensive basis. The role of a teacher assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

A student is expected to perform and record at least 3 experiments and 2 activities in each period of assessment from the list suggested below. Thus, a student shall perform a total of at least 6 (six) experiments and 4 (four) activities, at least one from each unit, throughout the academic year.

List of Experiments :

- **Matter, Nature and Behaviour**
 - To prepare a solution of common salt/ sugar of a given percentage composition by mass.
 - 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.
 - To differentiate between a mixture (containing two components) and pure compound.

- **Motion, Force and Work**
 - To determine the density of a liquid (other than water) by using a spring balance and a measuring cylinder.
 - To determine the density of a solid (denser than water) by using a spring balance and a measuring cylinder.
 - To determine the value of acceleration due to gravity.
 - To verify Archimedes' Principle.
 - To determine the boiling point of water and melting point of a solid (ice, urea).
 - To determine the velocity of a pulse propagated through a stretched string/sling.

- **Organisation in the Living World**
 - To prepare temporary mount of onion peel, human cheek cells and spirogyra, to identify their parts and draw labelled diagrams.
 - To identify different plant tissues (parenchyma, collenchyma, sclerenchyma) and animal tissues (striated muscle, nerve, blood) from prepared slides and draw their labelled diagrams.
 - To collect and identify different plant and animal specimens.
 - To study the characteristics of *Spirogyra/ Agaricus*, Moss/ Fern, *Pinus* (either with male or female) and an Angiosperm plant. Draw and give two identifying features of groups they belong to.
 - To observe and draw the given specimens- earthworm, cockroach, bony fish and bird. For each specimen, record- (a) one specific feature of its phylum (b) one adaptive feature with reference to its habitat.

- **Nutrition and Health**
 - To collect articles in the local newspaper regarding nutrition and health.

- **Natural resources and Environment**

- To make a herbarium of cereals, pulses and oil seeds and identify the seasons of their sowing and harvesting.
- To visit a local poultry farm/ fish farm/ apiary/ mushroom cultivation/ piggery/ paddy field. Observe the different types of breeds/ fish/paddy/ etc.
- To study the external structural adaptations of any two in aspect of their terrestrial (cockroach) aquatic (fish, prawn) amphibious (toad, frog) reptilians (lizards, chameleons), aerial (birds) and burrowing (mole, rat, earthworm) features.

List of Activities:

- Group/Individual Assignments
- Information gathering and deducing
- Discussion and debate
- Science symposium/seminar
- Presentation on science concepts/experiments
- Model making
- Field Trip

Prescribed textbook:

Science Class IX

***- NCERT Textbook (Nagaland edition)
Printed & distributed by Evergreen Publications***

Science Laboratory Manual Class IX

***- Evergreen Publications (I) Ltd.
4738/23, Ansari Road Daryaganj
New Delhi-110002***

SOCIAL SCIENCES

Objectives:

- to develop an understanding of the processes of change and development both in terms of time and space;
- to deepen knowledge about an understanding of India's freedom struggle and of the values and ideals that it represented;
- to help learners understand and cherish the values enshrined in the Indian Constitution and to prepare them for their roles and responsibilities as effective citizens of a democratic society;
- to deepen the knowledge and understanding of India's environment in its totality, their interactive processes and effects on the future quality of the life of the people;
- to develop an appreciation of the richness and variety of India's heritage - both natural and cultural and the need for its preservation;
- to promote an understanding of the issues and challenges of contemporary India - environmental, economic and social, as part of the development process;
- to help pupils acquire knowledge, skills and understanding to face the challenges of contemporary society as individuals and groups and learn the art of living a confident and stress-free life as well as participating effectively in the community;
- to develop scientific temper by promoting the spirit of enquiry and following a rational and objective approach in analyzing and evaluating information, views and interpretation;
- to develop academic and social skills such as critical thinking, communicating effectively both in visual and verbal forms - co-operating with others, taking initiatives and providing leadership in solving others' problems;
- to develop qualities clustered around the personal, social, moral, national and spiritual values that make a person humane and socially effective.

DESIGN OF QUESTION PAPER SOCIAL SCIENCES

Weightage to different forms of questions:

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	VSA	1	10	10
3.	SA-I	2	6	12
4.	SA-II	4	6	24
5.	LA	6	4	24
	Total		36	80

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	30	24
2.	Average	50	40
3.	Difficult	20	16
Total		100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl. no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	MCQ	-	1 minute	10 minutes
2.	VSA	One word/one sentence not more than 15 words	2 minutes	20 minutes
3.	SA-I	20-30 words	5 minutes	30 minutes
4.	SA-II	50-70 words	8 minutes	48 minutes
5.	LA	70-120 words	13 minutes	52 minutes
6.	Reading Question Paper and revision	-	-	20 minutes
			Total time	180 minutes

Scheme of options:

- i. Internal choice in 4 (four) questions of 4 marks each
- ii. General choice in 6 marks questions.

CLASS-IX
SOCIAL SCIENCES

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 80
Unit		
		Marks
I. India and the World		18
II. Topography of India		18
III. Democratic Politics		18
IV. Understanding an Economy		16
V. Nagaland (History and Personalities - a separate textbook)		10
Total		80
Part 'B' Internal		20
Grand Total		100

PART – A: EXTERNAL

80 marks/180 periods

Unit I: India and the World

18 marks/44 periods

French Revolution : The ancien regime and its crisis, the social forces that led to the revolution, the different revolutionary groups and ideas of the time, the legacy.

Russian Revolution: The crisis of Tzarism, the nature of social movements between 1905 and 1917, the First World War and foundation of Soviet State, the legacy.

Rise of Nazism : The growth of social democracy, the crisis in Germany, the basis of Hitler's rise to power, the ideology of Nazism, the impact of Nazism.

Indian National Movement : Indian National Congress-rise of extremism, Boycott and Swadeshi Movements, Muslim League, Revolutionary Movements, emergence of Gandhi.

Unit II: Topography of India

18 marks/44 periods

India : Location, relief, structure, major physiographic units.

Climate : Factors influencing the climate, monsoon- its characteristics, seasons.

Drainage: Major rivers and tributaries, lakes and seas, role of rivers in the economy.

Natural Vegetation :Vegetation types, need for conservation and various measures.

Wildlife: Major species, need for conservation and various measures.

Map Reading (including drawing and insertion) : Kinds of maps, classification of maps on the basis of Scale and Themes.

Unit III: Democratic Politics

18 marks/42 periods

Democracy: Meaning, types, alternatives to democracy.

Democracy in India : Framing of Indian Constitution, salient features of the Constitution, designing and redesigning of Indian Constitution.

Electoral Politics :Election of representatives, importance of citizens participation in electoral politics, measures to ensure free and fair elections.

Institution of Parliamentary Democracy :Parliament, it's role in democracy.

Citizens' Rights in a Democracy : Fundamental Rights, relationship of Fundamental Rights and Judiciary, Independence of Judiciary.

Unit IV: Understanding an Economy**16 marks/35 periods**

Economics : Its meaning, types of economy, features of Indian economy, public sector, private sector, joint sector.

Population : Size, distribution, age- sex composition, population change- migration as a determinant of population change, occupational structure and National

Population Policy : adolescents as under-served population group with special needs.

Poverty: Meaning, causes of poverty, poverty alleviation programmes, food security, source of food grains.

People as resource : Introduction of how people become resource/asset, quality of human resource, role of health and education, unemployment, types of unemployment, unemployment as a form of non-utilization of human resource, strategies to combat unemployment.

Unit V: Nagaland (History and Personalities)**10 marks/15 periods****PART-B: INTERNAL****20 marks**

- | | |
|-------------------|----|
| 1. Activities | 10 |
| 2. Assignment | 5 |
| 3. Formal Testing | 5 |

N.B: *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbooks:

- | | |
|---|---|
| 1. <i>A Textbook of Social Sciences Class IX</i> | - <i>Goyal Brothers Prakashan
11/1903, Chuna Mandi, Paharganj,
New Delhi – 110 055</i> |
| 2. <i>A book on Nagaland (supplementary)
for Classes IX & X</i> | - <i>NBSE, Kohima</i> |
| 3. <i>Atlas (with special addition of Nagaland)</i> | - <i>Srijan Publishers P Ltd
Plot No. 10. 1st floor
Vishal Market Commercial Complex
West Mukherjee Nagar, Delhi 110009</i> |

BOOK KEEPING & ACCOUNTANCY

Objectives:

- to enable the students to understand the fundamental principles and concepts of Book Keeping and Accountancy
- to understand the basic concepts of accounting
- to develop accounting equation
- to develop the skills of preparing and maintaining cash book
- to enable the students to practically involve themselves in the day to day financial activities
- to enable the students in recording transactions, passing journal entries, posting to ledger accounts and preparing trial balance
- to develop skills of preparing and maintaining simple accounts, books and records.

DESIGN OF QUESTION PAPER BOOK-KEEPING & ACCOUNTANCY

Weightage to different forms of questions:

Sl.no.	Forms of questions	Mark for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	SA -I	2	6	12
3.	SA -II	3	6	18
4.	LA	5	6	30
	Total		28	70

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	20	14
2.	Average	60	42
3.	Difficult	20	14
	Total	100	70

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	MCQ	-	1.5 minutes	15 minutes
2.	SA -I	20-30 words	5 minutes	30 minutes
3.	SA -II	30-50 words	7 minutes	42 minutes
4.	LA	70-100 words	13 minutes	78 minutes
5.	Revision	-	-	15 minutes
			Total time	180 minutes

Scheme of options:

1. There will be no overall choice.
2. Internal choice in 5(five) questions of 5 marks each

CLASS-IX
BOOK KEEPING & ACCOUNTANCY

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 70
Unit		Marks
I. Introduction		8
II. Basic Accounting Concepts		8
III. Source Documents and Accounting Equation		10
IV. Cash Book		12
V. Rules of Debit and Credit – Journal		12
VI. Ledger Accounts		10
VII. Trial Balance		10
Total		70
PART 'B' Internal		30
Grand Total		100

PART – A:EXTERNAL

70 marks/180 periods

- Unit I: INTRODUCTION TO BOOK KEEPING AND ACCOUNTANCY** **8 marks/15 periods**
Need for Book Keeping; Objectives and advantages of Book Keeping and Accountancy.
- Unit II: BASIC ACCOUNTING CONCEPTS** **8 marks/10 periods**
Basic Accounting Concepts - Business Entity Concept, Money Measurement Concept, Going Concern Concept, Accounting Period Concept, Dual Aspect Concept. Double Entry System.
- Unit III: SOURCE DOCUMENTS AND ACCOUNTING EQUATION** **10 marks/20 periods**
Origin of Transactions, Source Documents, Vouchers and its features, Accounting equation, Effect of transaction on Accounting equations.
- Unit IV: CASH BOOK** **12 marks/35 periods**
Necessity of Cash Book, Types of Cash Books, Cash column, Cash and Bank column, Petty Cash Book and Imprest system.
- Unit V: RULES OF DEBIT AND CREDIT–JOURNAL** **12 marks/40 periods**
The Concept of Debit and Credit, Definition of Debit and Credit. Classification of Accounts, Rules of Debit and Credit. Journal – Meaning, Advantages/Need and Limitations. Journal Entries.
- Unit VI: LEDGER ACCOUNTS** **10 marks/40 periods**
Ledger Accounts – Meaning, Classification, Importance/Advantages of Ledger Accounts, Ledger Posting from Journal Entries, Balancing of Ledger Accounts, Ledger Posting from Cash Book, Ledger Posting from Purchases Book and Ledger Posting from Sales Book. Rules of Posting from Subsidiary Books. Distinction between Journal and Ledger.

Unit VII: TRIAL BALANCE **10 marks/20 periods**
Trial Balance – Meaning, Purpose and Functions of Trial Balance, Limitations of Trial Balance and Methods of Preparing Trial Balance by Balance Method.

PART-B: INTERNAL		30 marks
1. Project work	-	20
2. Assignments	-	5
3. Formal testing	-	5

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed textbook:

Book Keeping & Accountancy Class IX - Evergreen Publications (I) Ltd.
4738/23, Ansari Road Daryaganj
New Delhi-110002

ENVIRONMENTAL EDUCATION

Objectives :-

- to develop an awareness of the environment and its problems;
- to develop basic knowledge and understanding of the environment and its inter-relationship with man, including indigenous tradition and cultural practices related to the environment;
- to develop habits, values, attitudes and emotions to maintain and promote 'quality environment' for human survival;
- to develop skills to solve environmental problems through participation and designed activities.
- to develop ability to assess the outcomes of environmental action and initiatives;
- to develop a sense of responsibility and urgency to ensure appropriate action to solve environmental problems;
- to make learners recognize the need for protecting, preserving and conserving environment and its resources.
- it lays emphasis on three aspects:
Learning *about* the environment.
Learning *through* the environment, implying a systematic exploration through a variety of activities,
Learning *for* the environment by developing a genuine concern and sensitivity towards its protection and preservation.
- The ultimate goal of Environmental Education is action
 - to improve the environment
 - to prevent its degradation and
 - to sustain its well being.

Above all, one of the main objectives of Environmental Education is to make learners love the environment and to commit themselves to protect the environment at any cost.

DESIGN OF QUESTION PAPER ENVIRONMENTAL EDUCATION

Weightage to different forms of questions:

Sl. no.	Forms of questions	Marks for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	VSA	1	6	6
3.	SA-I	2	8	16
4.	SA-II	3	7	21
5.	LA-I	5	3	15
6.	LA-II	6	2	12
Total			36	80

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	20	16
2.	Average	60	48
3.	Difficult	20	16
Total		100	80

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	Reading	-	-	10 minutes
2.	MCQ	-	2 minutes	20 minutes
3.	VSA	One word/One sentence (not more than 15 words)	2 minutes	12 minutes
4.	SA-I	20-30 words	4 minutes	32 minutes
5.	SA-II	30-50 words	6 minutes	42 minutes
6.	LA-I	50-70 words	10 minutes	30 minutes
7.	LA-II	70-100 words	12 minutes	24 minutes
8.	Revision	-	-	10 minutes
			Total time	180 minutes

Scheme of options:

- i. Internal choice in 5 marks and 6 marks questions.

CLASS-IX
ENVIRONMENTAL EDUCATION

Unit-Wise weightage

Part 'A' External

Time : 3 hours

Marks : 80

Unit	Marks
I. Understanding Ecosystem	25
II. Depletion of Resources	20
III. Waste Generation and Management	25
IV. Environmental Values and Ethics	10
Total	80
PART 'B' Internal	20
Grand Total	100

PART-A: EXTERNAL

80 marks/180 periods

Unit I: Understanding Ecosystem

25 marks/55 periods

Types of ecosystem – forest, grassland, desert, aquatic, coastal, marine.

Interaction between biotic and abiotic factors in an ecosystem.

Energy flow and its importance, cycles of nutrients in terrestrial and aquatic (fresh water and marine) ecosystems, nature's mechanism in maintaining balance.

Destruction of ecosystem due to changing patterns of land use : factors responsible for this – population growth, migration, industrialization and urbanization, dwelling units, transport; encroachment on water bodies, forests and agricultural land, shifting cultivation; facilities for tourism, pilgrimage, recreation and adventure; construction of large dams, mining and war.

Impact of ecosystem destruction – loss of habitat, stress on resources.

Conservation of ecosystem – alternative practices including indigenous conservation practices, planning for proper land use.

Role of Environmental Impact Assessment (EIA) in maintaining the quality of the environment.

Unit II: Depletion of Resources

20 marks/45 periods

Natural resources – air, water, soil, minerals, forests and fuels.

Causes of depletion of resources – over-use/irrational use, non-equitable distribution of resources, technological and industrial development, population growth.

Impact of resource depletion – imbalance in nature, shortage of materials, struggle for existence; slackening of economic growth.

Practices for conservation of resources – search for alternatives, promotion of renewable resources.

Unit III: Waste Generation and Management

25 marks/55 periods

Sources of waste – domestic, industrial, agricultural, and commercial.

Classification of waste – bio-degradable, non-biodegradable; toxic, non-toxic, bio medical.

Impact of waste accumulation – spoilage of landscape, pollution, health hazards, effect on terrestrial and aquatic (fresh water and marine) life.

Need for management of waste.

Methods of safe disposal of waste – segregation, dumping, composting, drainage, treatment of effluents before discharge, incineration, use of scrubbers and electrostatic precipitators.

Need for reducing, reusing and recycling waste.

Legal provisions for handling and management of waste.

Unit IV: Environmental Values and Ethics

10 marks/25 periods

Human rights, fundamental duties and value education.
Women and Child Welfare.

PART-B: INTERNAL

20 marks

The internal assessment should be based on continuous and comprehensive evaluation.
The allotment of marks shall be as follows

- | | |
|-------------------|----|
| 1. Project | 16 |
| 2. Formal testing | 4 |

In each period of assessment, a minimum of four projects must be conducted basing on the suggested projects in the textbook, the available resources and take cognizance to the local environmental problem.

***N.B:** It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:

***A textbook of Environmental Education Class IX - New Saraswati House (India) Pvt. Ltd.
Second Floor, MGM Tower, 19 Ansari
Road, Daryaganj, New Delhi-110002***

HOME SCIENCE

Objectives:

- To develop the art of co-operative living in the family and community.
- To develop the necessary attitudes, abilities, skill and techniques essential for group living and getting along with others.
- To help the pupils to understand their role and responsibilities in the family and community, in the management of resources and the duties of future parents.
- To develop an appreciation of social, religious and cultural values.
- To develop sound judgement and ability to make decisions.
- To develop the ability to do household work, such as cleaning, cooking, maintaining accounts, entertaining and looking after children.
- To cultivate good habits of health and hygiene.
- To impart knowledge of facts of health, nutrition, hygiene and other aspects of family living.
- To learn ways and means to supplement family income.
- To impart knowledge of the aesthetic, hygienic and economical value of clothing.

DESIGN OF QUESTION PAPER HOME SCIENCE

Weightage to different forms of questions:

Sl.no.	Forms of questions	Mark for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	SA -I	2	12	24
3.	SA -II	3	7	21
4.	LA	5	3	15
Total			32	70

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	18
2.	Average	60	42
3.	Difficult	15	10
Total		100	70

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected length of answer	Expected time for each question	Total expected time
1.	MCQ	-	2.5 minutes	25 minutes
2.	SA -I	20-30 words	4 minutes	48 minutes
3.	SA -II	40-60 words	8 minutes	56 minutes
4.	LA	80-100 words	12 minutes	36 minutes
5.	Reading of Question Paper & Revision	-	-	15 minutes
Total time				180 minutes

CLASS-IX
HOME SCIENCE

Unit-Wise weightage

Part 'A' External

Time : 3 hours

Marks : 70

Unit	Marks
I. Concept, objective and scope of Home Science	08
II. Family-a unit of society	10
III. Food and its relation to health	08
IV. Cooking of food	10
V. Food preservation	07
VI. Functions of a home	08
VII. Safety in the house	07
VIII. Fabrics	07
IX. Selection of clothes	05
Total	70
<hr/>	
Part 'B' Internal	30
Grand Total	100

PART – A: EXTERNAL

70 marks/180 periods

Unit I: Concept, objective and scope of Home Science

8 marks/20 periods

Unit II: Family- a unit of society:

10 marks/22 periods

Definition of family, functions; types of family-nuclear, joint and extended (advantages and disadvantages); size of family- small and large (advantages and disadvantages); reasons for change in family, role of family and its smooth functioning, stages of family.

Unit III: Food and its relation to health:

8 marks/20 periods

Definition of food, nutrients, nutrition, food groups, balanced diet, functions of food, physiological function, psychological function, sociological function, inter-relationship between food and health.

Unit IV: Cooking of food:

10 marks/25 periods

Reasons for cooking, principles of cooking, methods of cooking, boiling, steaming, pressure cooking, frying, roasting and baking- brief description of each and suitability for food preparation.

Unit V: Food preservation:

7 marks/18 periods

Definition, importance of food preservation, principles of food preservation, causes of food spoilage, methods of food preservation.

Unit VI: Functions of a home:

8 marks/20 periods

Protective and social characteristics of functional house, sanitation, latrine, light, ventilation, drainage system, sewage system, water supply, surrounding, security, recycling and optimal utilization of gas.

Unit VII: Safety in the house: 7 marks/20 periods
Precaution of accidents in the kitchen and bathroom, first aid, burns, bruises and sprains, shocks, cuts and wounds, poisoning, electric shocks, safe use of fuels, drowning, snake bite.

Unit VIII: Fabrics: 7 marks/20 periods
Fibre and yarn, classification of fibre on the basis of origin and length; yarn making, fabric weaving (different types of weaves-plain, twill and satin), knitting and felting, blended fabrics.

Unit IX: Selection of clothes: 5 marks/15 periods
Meaning of clothing, functions of clothing, factors affecting selection of clothing-age, climate, occupation, occasion, figure, fashion, cost, comfort.

PART-B: INTERNAL 30 marks

1. Observe your own family for type, size and role of each member. Record the activities of all members on any one typical day of a family.
2. Prepare food using different methods of cooking. Evaluate and record taste, texture and colour of food.
3. Prepare one food item using any method of food preservation (pickle, jam, jellies, squash etc).
4. Study your own house for light, ventilation, disposal of waste, water and surroundings and record your observations.
5. Study your house for measures of safety against accidents and give suggestions for improvement.
6. Preparation of first aid box and practice giving first aids to cuts, burns, fever, acids and bites.
7. Collect samples of fabrics available in the market and present a comparative picture on the basis of cost (optional), durability, appearance and burning test.
8. Identification of fabric- physical appearance and suitability.

The allotment of marks shall be as follows:

- | | |
|------------------------|----|
| 1. Practical exercises | 20 |
| 2. Practical record | 5 |
| 3. Formal testing | 5 |

N.B. *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:

**A textbook of Home Science Class IX - New Saraswati House (India) Pvt. Ltd.
Second Floor, MGM Tower, 19 Ansari Road,
Daryaganj, New Delhi-110002**

FOUNDATION OF INFORMATION TECHNOLOGY

Objectives:

General:

1. To familiarize with basic of information technology.
2. To develop basic skills of using tools for word processing, presentation and database management.
3. To appreciate use of IT in various domains.

Specific:

1. Cognitive domain: Knowledge and understanding
To develop basic understanding of IT system operations and information accessing tools.
2. Psychomotor domain: Skills
To develop skills in using tools of word processor, to manage database, to make graphs , to analyse report using spreadsheets and to develop web pages.
3. Affective domain: Personality traits
To develop habit of teamwork and structured presentation.

DESIGN OF QUESTION PAPER FOUNDATION OF INFORMATION TECHNOLOGY

Weightage to different forms of questions:

Sl.no.	Forms of questions	Mark for each question	No. of questions	Total marks
1.	MCQ	1	10	10
2.	SA-I	2	11	22
3.	LA-I	3	6	18
4.	LA-II	5	5	20
	Total		32	70

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	18
2.	Average	60	42
3.	Difficult	15	10
	Total	100	70

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected time for each question	Total expected time
1.	MCQ	2 minutes	20 minutes
2.	SA-I	4 minutes	44 minutes
3.	LA-I	8.5 minutes	51 minutes
4.	LA-II	10 minutes	50 minutes
5.	Reading of Question Paper & Revision	-	15 minutes
		Total time	180 minutes

CLASS-IX
FOUNDATION OF INFORMATION TECHNOLOGY

Unit-Wise weightage	Time : 3 hours	Marks : 70	
Unit		Marks	
		Theory	Practical
I IT basic		15	0
II IT Tools			
Windows			
Ms office or Open office.org		50	20
• Word or Other word processor			
• Excel or Other Spreadsheet program.			
• PowerPoint or Other Presentation Program			
III Societal Impact of IT		5	0
IV IT Application		0	10
Total		External: 70	Internal: 30

PART – A: EXTERNAL (Theory)

70 Marks/180 Periods

Unit I: Basic of Information Technology

15 Marks

- (a) Convergence of Technologies:
Computer system: Contents to be added:

Definition of computer system, Platform, Number of CPU cores, clock speed, Fault Tolerance, characteristics Of computer, Basic application of Computer, Components of computer system-Central Processing Unit(CPU) , Visual Display Unit, Keyboard.

Concept of Memory: Primary and Secondary memory, RAM and ROM, Units of Memory- byte, kilobyte, Megabyte, gigabyte, Terabyte.

Input/ Output devices: Mouse, joysticks, Scanner, microphone , OCR, MICR,Light Pen, Bar code reader, digital camera, Printer, speaker, Plotter.

Storage Devices:

Hard Disk, CD-ROM, DVD, Pen/Flash Drive, Memory Sticks;

Types of software: System software, application software (General purpose application software-word processing,spreadsheet,presentation,dbms management, specific purpose application software- accounting management, reservation system,HR Management, Attendance system,payroll system, invent control system, billing system) and Utility software(Disk/Folders/Files managment, virus scanner/Cleaner,Encryption/Decryption tools).

Unit-II: Information Processing Tools

50 Marks

Operating System:

Basic concept of OS, Operating system, Needs for an operating system, Function of an OS (Processor mgmnt, Memory mgmnt, device mgmnt), types of an operating system (Gui based), Real time and distributed, commonly used operating system, UNIX, LINUX, Windows, Solaris, Boss (Bharat operating system solutions), Mobile OS- Android, Symbion.

Introduction to Windows: Basic component of GUI window: Desktop, frame, Title bar, Menu Bar, Status Bar, Scroll Bars (horizontal and vertical), Basic Operations of left and right buttons of mouse, Creating shortcut, Basic tools: Text Editor, Painting tool, Calculator, Using mouse and moving icons on the screen, My computer, Recycle bin, Control panel and function of control panel (Need to be added), Task bar, start-menu and menu selection, running an application, setting system date and time; windows explorer to view files, concept of folders and directories; creating /moving /renaming /deleting files and folder; opening and closing of windows; Minimize, restore and maximize forms of windows.

Office tools:

Word-Processing Tools (Example:-Ms-word, Open-Office or Libra Office, Google Docs Word Processor, Neo Office, AbiWord)

Introduction to word-processor, create and save a document, Editing and formatting a document; Text style (B, I, U) and font type, size, changing color, alignment of text, formatting paragraphs with line and paragraph spacing; adding Headers and footers, numbering pages; using grammar and spell-check utilities, using subscript and superscript; inserting symbols, inserting mathematical symbols (need to be added); print preview, printing a document.

Inserting WordArt, clipart and pictures, Page setting, bullets and numbering, border and shading, format painter, find and replace, inserting tables: Inserting, deleting row and columns, merging cells, splitting cells, using auto-format; mail merge.

Introduction of Presentation Tools (Example: Ms-powerPoint, Powton, SlideRocket, Google Docs Presentation Program)

Introduction to presentation graphics, understanding of concept of slide shows, basic elements of a slide, different types of slide layout, creating and saving a presentation, different views of slide- normal view, slide sorter view and slide sort; Editing and formatting a slide, Adding titles, subtitles, Text Background, watermark; Headers and footers, Numbering slides;

Inserting pictures from files, animating pictures and text with sound effects, timing text box, pictures and slides, Rehearse timings, ungrouping and grouping pictures from clipart.

Introduction To Spreadsheet Tools (Example: - Ms-Excel, Google Docs Spreadsheet, Kingsoft Spreadsheet)

Introduction to spreadsheet, concept of worksheets and workbooks, creating and saving a worksheet, working with a spreadsheet, entering numbers, text, date/time, series of using AutoFill, Editing and formatting a worksheet including changing color, size, font, alignment of text, inserting and deleting cells and rows and columns, formulae entering, entering a formula in a cell, using operators (+, -, *, /) in formulae, Relative referencing, absolute referencing and mixed referencing, printing a worksheet.

Use simple statical function: SUM(), AVERAGE(), MAX(), MIN(), IF(), (without compound statements); inserting tables in worksheet, embedding charts of various types: Line, pie, scatter, bar and area in a worksheet.

Unit-III:Societal Impact of IT:**5 Marks**

Social issue of IT, Plagiarism, Intellectual property Rights, Copyright, Software Piracy, Data Security, Data Integrity, Carriers in Computing.

Note:

Teachers are requested to demonstrate some other popular software for word processing, presentation, and spreadsheet which support hindi and / or some other indian language(s).

(Leap office is an example of office suite (word processor with an interface to MS-office, lotus smartsuite, pagemaker, corel draw) with complete support of indian language)

Unit -IV: IT Application:

Students are suggested to work on the following areas using MS-Word, Ms-Powerpoint and Ms-Excel on topics implementing the tools covered in the course.

Domains:

PART – B: INTERNAL (Practical)**Marks: 30****(A) Hands- on experience (4 Exercises)**

Design of a practical question paper

Instruction on the basis of syllabus , distribution of marks and conduct of practical examination have been provided. The examiner is advised to set the question paper according to the prescribed syllabus and distribution of marks.

(i) Windows operating system	:	2 marks
(ii) Word Processor	:	6 marks
(iii) Presentation	:	6 marks
(iv) Spreadsheet	:	6 marks

1. Windows operating system: *

To test some of the following basic system operation on file/ folder(s):-

Create, rename, copy/cut/paste, delete, commands related to text editor/ drawing tools.

2. Word Processing tools: *(Example:-Ms-word, Open-Office or Libra Office,Google Docs Word Processor,Neo Office, AbiWord)

A document is required to be created for testing the following areas:

- Editting and formatting text and paragraph.
- Page and Paragraph setup.
- Inserting Symbols and pictures
- Mail Merge Formal/ Informal Letter.
-

3. Presentation Tools:* (Example: Ms-powerPoint, Powton, SlideRocket, Google Docs Presentation Program)

- School presentation
- Environment (save energy)and pollution(Global Warming)
- Product advertisment
- Science and social science topics from the course
- Trends in wireless computing.

4. Spreadsheet :* (Example: - Ms-Excel, Google Docs Spreadsheet,Kingsoft Spreadsheet)

- Formatting cells and data.
- function and formula(Relative, absolute and Mixed reference) ,
- charts.

***Printout of the document should be attached with the anwer sheet**

(B) IT Application Report File:

5 Marks

Students are requested to maintain an IT application report file containing assignments performed during academic year. Real life assignments/ presentation are to be done using **word processing tool on 4 topics:**

- Report Making
- Poster Making,
- Invitation Cards,
- Letter/ Application Writing

Presentation and Spreadsheet Tools:

- 4 presentation
- 4 spreadsheets with charts

(C)VIVA VOCE:

5 Marks

N.B: It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.

Prescribed textbook:

***Foundation of Information Technology Class IX - Evergreen Publications (I) Ltd.
4738/23, Ansari Road Daryaganj
New Delhi-110002***

MUSIC

Objectives:

- To create interest in music generally and to inculcate in the students an appreciation of our own native music and to introduce several types of Ethnic musical instruments.
- To introduce the basic fundamentals of Western classical music. Keys, major, minor and chromatic forms are introduced as well as intervals basic chords, dynamics, tempo markings and principles of singing styles.
- To provide opportunity for the students to demonstrate practically what has been learned in theory.
- To develop and encourage musical curiosity and music writing skills.

DESIGN OF QUESTION PAPER MUSIC

Weightage to different forms of questions:

Sl.no.	Forms of questions	Mark for each question	No. of questions	Total marks
1.	MCQ	1	10 (3E, 7W)	10
2.	SA-I	2	12 (1E, 11W)	24
3.	SA-II	3	7 (7W)	21
4.	LA	5	3(1E, 2W)	15
	Total		32	70

Weightage level of questions:

Sl.no.	Level	Percentage	Marks
1.	Easy	25	18
2.	Average	60	42
3.	Difficult	15	10
	Total	100	70

The expected length of answer and time to be taken under different forms of questions shall be as follows:

Sl.no.	Forms of questions	Expected time for each question	Total expected time
1.	MCQ	2 minutes	20 minutes
2.	SA-I	4 minutes	48 minutes
3.	SA-II	8 minutes	56 minutes
4.	LA-II	14 minutes	42 minutes
5.	Reading of Question Paper & Revision	-	14 minutes
		Total time	180 minutes

CLASS - IX
MUSIC (THEORY)

Unit-Wise weightage

Part 'A' External	Time : 3 hours	Marks : 70
Unit		Marks
I. Ethnic music		10
II. Western music		60
Total		70
Part 'B' Internal - Practical		30
Grand total		100

PART – A: EXTERNAL

70 Marks/180 periods

Unit-I Ethnic Music 10 marks

1. Name and explain Naga song genres (generic): Nursery Rhymes, Lullabies, Feast or Festival songs, Story songs, War songs, Love songs, Labour or Work songs, Lament (Funerary songs).
2. Identify the intervals of a given Naga folk song- whether skip, step or repetition.

Unit-II Western Music 60 marks

1. The Stave, Treble and Bass Clef, Bar (measure), Bar lines, Note, Note values, Rests, Time signatures.
2. Grouping notes and grouping rests, Beaming quavers, syncopation, ties.
3. Tones and semi-tones (half and whole step): Intervals; Accidentals
4. Circle of 5ths, Key signatures; Working out of the key of a piece.
5. Scales (major/minor): Relative minor, Natural minor, Harmonic minor, Labelling scales.
6. Triads, Arpeggios (broken chord), first inversion.
7. Ostinato, sequences.
8. Answering a given rhythm (melodic response); Writing own tunes to a given rhythm (melodic response).
9. Transposing tunes up or down an octave.
10. Analysis including Musical words and symbols

PART – B: Practical

Marks: 30

Ethnic Music

1. National Anthem (sing the National anthem of India)
2. Sing one folk song from the student's own tribe/region
3. Sing any one other folk song taken from the book

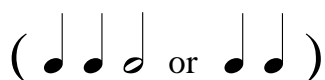
Western Music

A. Sightsinging:

1. Sing any one of these songs by memory with word:
Doxology, God Bless My Nagaland, Amazing Grace.
2. Learn any one of these songs with tonic solfa syllables from staff notation
Doxology, Ode to Joy (Joyful, Joyful, We Adore Thee), We wish you a Merry Christmas.
3. Sing half and whole steps above/below a given pitch
4. Sing the major scale up/down with syllables
5. Two pitch patterns ascending/descending

i) Up : d r d r m r m f m f s f etc. using one of these rhythms:

Down : d t₁d t₁l₁t₁ l₁s₁l₁ etc. using one of these rhythms:



ii) Up : d r m r d r m f m r m f s f m etc. using these rhythms:-


Down: d t₁l₁t₁d t₁l₁s₁l₁t₁ l₁s₁f₁s₁l₁ etc. using these rhythms:




B. *Rhythm Recitation*: rhythms alone, or from songs, using these note values only:



and these rests

 (Whole rest)

 (half rest) and

 (quarter rest)

C. Ear Training:

1. Identify a major scale.
2. Identify half and whole steps (tone and semi-tone) played on an instrument.
3. Identify whether two played notes are a step up or down, a skip up or down, or the same (repetition)
4. Identify a melodic passage as either Legato or Staccato.
5. Conduct a simple 3/4 or 4/4 or 6/8 pattern to a passage played.

The allotment of marks shall be as follows:

1. Practical exercises	20
2. Assignment	5
3. Formal testing	5

N.B: *It is expected that students are assessed on continuous and comprehensive basis on the given topics. The role of teachers assumes a very significant part, as such, they are expected to be fair and assess the performance of the students without any bias.*

Prescribed textbook:

Music Textbook IX (Theory & Practical)

- **Publication of NBSE, Kohima.**

Design of Question Paper Vocational Trades

Weightage to different forms of questions:

Sl. No.	Forms of Question	Marks for each Question	No. of Question	Total Marks
1.	MCQ	1	10	10
2.	VSA	1	8	8
3.	SA	2	8	16
4.	LA	4	4	16
Total			30	50

- General option shall be given in LA (To answer any four out of six questions)

Weightage to level of questions:

Sl. No.	Level	Percentage (%)	Marks
1.	Easy	30	15
2.	Average	50	25
3.	Difficult	20	10
Total		100	50

The expected length and time to be taken for different forms of questions:

Sl. No	Forms of Question	Expected length of answer	Expected time for each question	Total expected time
1.	MCQ		1 minute	10 minutes
2.	VSA	One word or one sentence	2 minutes	16 minutes
3.	SA	20 – 50 words	5 minutes	40 minutes
4.	LA	60 – 100 words	10 minutes	40 minutes
5.	Reading Q. Paper and Revision			14 minutes
Total Time				120 minutes

IT/ITeS
Domestic IT Helpdesk Attendant
LEVEL – 1 (Class-IX)

Unit-wise Weightage

PART- A: THEORY

Units	Title	Marks	Hour
I	Fundamentals of Computer	13	26
II	Mastering Typing	3	6
III	Word Processing	7	14
IV	Spreadsheet	7	14
V	Digital Presentation	7	14
VI	Email Messaging	6	12
VII	HTML	7	14
Total		50	100
PART – B: PRACTICAL		50	100
GRAND TOTAL		100	200

PART- A: THEORY

50 Marks (100 Hours)

Fundamentals of Computer:

Introduction to Computers; Parts of a Computer System; Computer Fundamentals; Types of Computers; Using a Computer; Computer Operating Systems; Performing_Basic File Operations; The Internet; The World Wide Web; Digital Technology and_Media Devices; Computer Security and Privacy.

Mastering Typing:

User Experience, Begin Lessons, Viewing Statistics, Working with Lesson Editor

Word Processing:

Getting Started with a Word Processor; Edit and Save a Document;_Identify Elements_of User Interface; Format a Document – Bold, Italics and Underline; Checking_Grammar and using Thesaurus; Copy - Paste and Cut - Paste; Find and Replace Text; Creat List of Items Using Bullets and Numbering; Format Font Style; Aligning the_Text; Views of a Document; Print a Document; Create a Table; Format a Table; Add Borders to Pages; Paragraphs and Text; Add Shadings to Pages, Paragraphs and Text;__Preview a Document, Adjust its Margins and Orientation; Align Text using Tabs

Spreadsheet:

Introduction to Spreadsheets; Open, Save and Close Spreadsheet; Enter Data in Spreadsheet; Basic Calculations – Addition; Basic Calculations – Subtraction; Basic Calculations – Multiplication; Basic Calculations – Division; Insert Column and Row; Format Cell and its Contents; Stock Register; Customizing the Interface; Use Currency Symbols; Format Cell

Contents – Font Style and size; Delete – Columns and Rows; Spell check; Border the cells; Colour the cells; Managing Worksheets in a Workbook; Print a Worksheet

Digital Presentation:

Introduction to Digital Presentation; Create, Save and Close Presentation; Create a Simple Presentation; View a Presentation – Slide Show View; Edit Text - Font Size, Style and Colour; Edit Text in a Presentation; Insert Image in a Presentation; Add Shapes in a Presentation; Presentation Themes; Change design of a Presentation; Arrange, Delete and Add slides; Print a Presentation

Email Messaging:

Introduction to E-mail; Creating an E-mail Account with Gmail.com; Creating an E-mail Account with Outlook.com; Link Email Address to Email Application; Writing an Email Message; Receive and Respond to Email Messages; Using email Ribbon; Format and Spell Check an Email message; Attach a File to Email Message; Using Help; Print Email Message; Adding and Modifying a Contact

HTML:

Introduction to HTML; Simple HTML Code with Output; HTML Elements; HEAD Element; Title Elements; HTML Tags; Attributes; Body Tags and its Attributes; Different Level of Headings; HR Tags and Attributes; BR & P Tag; Bold, Italic, Underline, Blink, Strike, Subscript, Superscript; Comments; Fonts and its Attributes; Image and its Attributes; Ordered and Unordered List; List of Colors with Hexadecimal Code

PART – B: PRACTICAL 50 Marks (100 Hours)

Parameters

- Project / Practical Activities
- Viva based on Project
- Practical File/ Report or Portfolio
- Demonstration of skill competency in Lab Activities
- Exposure trips/visits - IT Centre

Assessment Guide:

<i>Sl. No.</i>	<i>Method of Assessments</i>	<i>Weightage (Max. marks)</i>	<i>Evaluator</i>
1	Theory	50	Board/Teacher
2	Practical test	30	Certified Assessor/Teacher
3	Oral test/viva voce	5	Certified Assessor/Teacher
4	Portfolio	5	Certified Assessor/Teacher
5	Project	5	Certified Assessor/Teacher
6	Direct Observation	5	Certified Assessor/Teacher

Total	100	
-------	-----	--

- *Qualifying Marks for both Theory and Practical shall be 20 respectively*

Prescribed textbook:

IT/ITeS (Domestic IT Helpdesk Attendant) - *Publication of NBSE, Kohima.*
NSQF Level – 1 (Class-IX)

Healthcare
Level 1 (Class – IX)
Patient Care Assistant/General Duty Assistant

PART – A : Theory 50 Marks (100 Hours)

<i>Unit</i>	<i>Title</i>	<i>Marks</i>	<i>Hour</i>
I	Healthcare Delivery Systems	10	20
II	Role of Patient Care Assistant	12	25
III	Personal Hygiene and Hygiene Standards	9	17
IV	Primary Healthcare and Emergency Medical Response	4	8
V	Immunization	6	13
VI	Communication at Workplace	9	17
TOTAL		50	100

PART – B: PRACTICAL	50 Marks (100 Hours)	50	100
GRAND TOTAL		100	200

PART – A : Theory 50 Marks (100 Hours)

I. Health Care Delivery Systems:

Describe Healthcare Delivery Systems; Components and Activities of Hospital; Role and Functions of Clinics; Rehabilitation Care Facilities; Long Term Care Facilities; Hospice Care.

II. Role of Patient Care Assistant:

Role of Patient Care Assistant; Various Activities of Patient's Daily Care; Basic Requirements for Patient Comfort ; Various Aspects of Patient's Safety; Qualities of a Good Patient Care Assistant, Biomedical Wastes and its Management.

III. Personal Hygiene and Hygiene Standards:

Good Hygiene Practice; Factors Affecting Good Health; Perform Hand Washing; Personal Grooming.

IV. Primary Healthcare and Medical Emergency Response:

Essential Components of Primary Healthcare; Chain of Survival.

V. Immunization:

Various Types of Immunity; Immunization Schedule; Key Components of Universal Immunization Programme; Pulse Immunization Programme.

VI. Communication at Work Place:

Elements of Communication; Demonstrate Effective Communication Skills.

PART – B: PRACTICAL **50 Marks (100 Hours)****Parameters**

- Project / Practical Activities
- Viva based on Project
- Practical File/ Report or Portfolio
- Demonstration of skill competency in Lab Activities
- Exposure trips/visits - HealthcareCentres

Assessment Guide:

<i>Sl. No</i>	<i>Method of Assessments</i>	<i>Weightage (Max. marks)</i>	<i>Evaluator</i>
1	Theory	50	Board/Teacher
2	Practical test	30	Certified Assessor/Teacher
3	Oral test/viva voce	5	Certified Assessor/Teacher
4	Portfolio	5	Certified Assessor/Teacher
5	Project	5	Certified Assessor/Teacher
6	Direct Observation	5	Certified Assessor/Teacher
Total		100	

- *Qualifying Marks for both Theory and Practical shall be 20 respectively*

Prescribed textbook:

Patient Care Assistant/General Duty Assistant - *Publication of NBSE, Kohima.*
NSQF Level 1 (Class – IX)

Retail (Organized Retailing)
Level – 1 (Class – IX)

PART – A :Theory 50 marks (100 hours)

<i>Unit</i>	<i>Title</i>	<i>Marks</i>	<i>Hour</i>
I	Retailing Basics	7	15
II	Communication Basics	6	10
III	Goods Management in Retailing	9	20
IV	Customer Service	7	15
V	Packaging and Bagging in Retail	8	17
VI	Hygiene and Safety Practices in Retail	7	15
VII	Work Integrated Learning	6	8
TOTAL		50	100

PART – B: PRACTICAL	50 marks (100 hours)	50	100
GRAND TOTAL		100	200

I. Retailing Basics:

Introduction; Basics of Retailing; Organized and Unorganized Retailing; Store and Non-store Retailing; Indian and Global Retailers.

II. Communication Basics:

Introduction; Introduction and Greeting; Framing of Questions and Complete Sentences; Dealing with Customers in Retail Environment; Principles of Communication.

III. Goods Management in Retailing:

Introduction; Receive and Store Goods in Retail Operations; Delivery Procedures; Maintain Stock Levels; Laws in Records Maintenance.

IV. Customer Services:

Introduction; Understand the Customer Needs; Establish Effective Rapport with Customers; Customer Services in Retail; Communicate Information to Customers.

V. Packaging and Bagging in Retail:

Introduction; Packaging Materials; Use of Packaging Equipments; Procedure for Bagging and Packing; Marking and Labeling.

VI. Hygiene and Safety Practices in Retail:

Introduction; Basic Hygiene and Safety Practices; Potential Hazards and Accidents at Workplace; Safety Measures at Workplace; Precautions to be taken for safety.

VII. Work Effectively in Retail Operations:

Introduction; Duties and Responsibilities of Store Operation Assistant; Career Prospects in Retail; Writing a Resume; Writing a Job Application.

PART – B: PRACTICAL**50 marks (100 hours)****Parameters**

- Project / Practical Activities
- Viva based on Project
- Practical File/ Report or Portfolio
- Demonstration of skill competency in Practical Activities
- Exposure trips/visits

Assessment Guide:

<i>Sl. No</i>	<i>Method of Assessments</i>	<i>Weightage (Max. marks)</i>	<i>Evaluator</i>
1	Theory	50	Board/Teacher
2	Practical test	30	Certified Assessor/Teacher
3	Oral test/viva voce	5	Certified Assessor/Teacher
4	Portfolio	5	Certified Assessor/Teacher
5	Project	5	Certified Assessor/Teacher
6	Direct Observation	5	Certified Assessor/Teacher
Total		100	

- *Qualifying Marks for both Theory and Practical shall be 20 respectively*

Prescribed textbook:**Organized Retailing (Retail)
NSQF Level – 1 (Class – IX)****- Publication of NBSE, Kohima.**

**Travel and Tourism
Tour Assistant
Level-1 (Class-IX)**

Unit-wise Weightage

PART – A: Theory

Units	Marks	Hours
I – Soft Skills	15	35
II – Introduction to Tourism-1	7	20
III – Tourism Business-1	12	30
IV – Tourism Product-1	16	35
	50	120
PART – B: Practical		
Practical	30	80
Internal Assessment	20	
	100	200

PART – A: Theory 50 Marks (120 Hours)

Unit - I Soft Skills

Defining Hard Skills and Soft Skills; Importance of Soft Skills in Tourism and Travel Industry; Communication Skills – A Key to Soft Skills; Communication – The Concept; Process of Communication; Types of Communication – Verbal Communication; Elements of Verbal Communication; Non – Verbal Communication; Types of Non-Verbal Communication; Barriers of Communication; Effective Communication; Listening

Unit – II Introduction to Tourism – 1

Purpose of Tourism; Tourist Typology; Nature of Tourism; Components of Tourism; Forms of Tourism- Inbound, Outbound, Domestic

Unit – III Tourism Business – 1

Evolution of Tourism Business (Thomas Cook till date); Silk Route and Tour; Grand Tour; Modern Tourism in India (Rail Tourism); Tourism Intermediaries and Linkage (an introduction)

Unit – IV Tourism Product – 1

Understanding Tourism Resource; Types of Resources; Tourism product; Characteristics of Tourism Product; Tourism Resource to Tourism Product; Classification of Tourism; Protection of Tourism Products

PART – B: Practical 50 Marks (80 Hours)

Practical

- Visit to Tourism Organization (Travel Agency/ Tour Operator)
Report on the visit (Oral and Written)
- Visit to a Local / Nearby Museum
Report on the visit (Oral and Written)
- Locate / Identify Tourist Potential Area in the Locality (Natural, Cultural Heritage, Eco Tourist Spots)
Prepare a Report
- Conduct Role Play, Debate, Group Discussion

Assessment:

A. External

Theory

50 marks to be assessed through External Examination
(The minimum qualifying marks will be 20)

B. Internal

Practical

30 marks (Oral 20 marks & Written 10 marks) to be assessed by the subject teacher internally.

CCE

20 marks to be assessed on a continuous basis through

- class test / unit test and assignment (10 marks)
- debate/group discussion/role play/project work (10 marks)

A minimum of three activities in both the areas should be conducted in each period of assessment. The average marks secured by the students in both the period of assessment shall be forwarded to the Board.

The Practical and CCE (30+20) marks shall be taken into account for all academic purpose. The minimum qualifying marks will be 20

Prescribed textbook:

Travel and Tourism Class-IX - *Publication of NBSE, Kohima.*

Physical & Health and Work & Art Education for Classes IX & X

<u>Sl.No</u>	<u>Unit</u>	<u>Lesson/Chapter</u>	<u>Content</u>	<u>Activity</u>
I.	Physical Education	1. Games and Sports	<ul style="list-style-type: none"> - Meaning of physical education - Importance of Athletics and other major sports - The value of discipline, punctuality, respect for others, observance of the rules and fair play - Being cooperative and developing team spirit - Components of Physical and Health Education and their role in the wholesome growth and development of personality. 	Games and Sports
		2. Common Games and Sports	<ul style="list-style-type: none"> - Examples of some common games and sports played in Nagaland- giving dimensions/area and basic rules - Cricket, Football, Badminton, Track events, Martial Arts (Taekwondo) etc. 	Camps
		3. Scouting/ Guiding	<ul style="list-style-type: none"> - Importance - Values - Role in the wholesome growth and development of personality. 	
		4. Adventure	<ul style="list-style-type: none"> - Importance - Values - Role in the wholesome growth and development of personality 	Hiking/Cycling etc
II.	Health Education	5. Personal health	<ul style="list-style-type: none"> - Definition of Health - Personal Health - Four aspects of Health: <i>Physical, Mental, Social, Moral</i> - Factors affecting Health 	Case Studies
		6. Growth And Development	<ul style="list-style-type: none"> - Definition - Characteristics - Body and its functions: <i>Human Body (basic) and its functions</i> 	Case Studies
		7. Nutrition	<ul style="list-style-type: none"> - What is nutrition - Factors shaping up the nutritional status of an individual - Balanced Diet: what it is? 	

III.	Adolescence Education	8. Substance Abuse	<ul style="list-style-type: none"> - What is substance abuse? - Harmful effects of - alcohol, tobacco, drugs - Preventive measures 	Awareness programmes
		9. Diseases	<ul style="list-style-type: none"> - Definition - Communicable And Non-communicable diseases - Categories of diseases with examples, symptoms and prevention - STD's- causes , symptoms and prevention - HIV/AIDS- cause , symptoms and prevention 	Awareness programmes
		10. First-aid	<ul style="list-style-type: none"> - Meaning and definition - First-aid box- what it is <ul style="list-style-type: none"> - components of a simple first-aid box - First-aid during- bleeding <ul style="list-style-type: none"> - burn / fire wounds -fractures - CPR 	Perform mock first-aid for different situations
		11. Adolescence and Pubescence	<ul style="list-style-type: none"> - Definition - Various stages of a person's life - Importance - Role of parents, teachers, society 	Group Discussions
		12. Physical changes during early teens	<ul style="list-style-type: none"> - General characteristics - Patterns of physical growth - What controls the physical growth? - Physical changes. 	
IV.	Work Education	13. Behavioral changes during adolescence	<ul style="list-style-type: none"> - How do physical changes affect behavior/ attitude - Emotional changes - Mental changes - Personal goals or interests developed during adolescence - Social and mental interests 	Case Studies
		14. Gardening	<ul style="list-style-type: none"> - Self sufficiency - Different types of gardening - What to grow? chart of vegetable-sowing season - preparing nursery bed, seed bed and soil management, irrigation - Some techniques of using space 	Do-it-yourself kitchen garden Visit a garden and report

V.	Art Education	15. Craft	<ul style="list-style-type: none"> -Toys and doll making- with activity, steps and materials required - Paper craft - Tailoring, embroidery - Bamboo craft- bamboo mug, c.d rack, soap case 	Craft making
		16. Community service	<ul style="list-style-type: none"> - Meaning - Types - Social work - Cleanliness drives 	Cleanliness drives, Observation of important environment programmes
		17. Disaster Management	<ul style="list-style-type: none"> - What is disaster? - Types and nature of disasters - Natural: Earthquakes/Cyclones/Floods/Droughts/Landslides - Man-made: Fires/Traffic accidents/drowning accidents/Gas leaks 	Mock-drills For earthquake and fire
		18. Music	<ul style="list-style-type: none"> - Different musical instruments <i>i.Ethnic</i> <i>ii.Western</i> - Naga ethnic musical instruments- <i>i. single string/cup violin</i> <i>ii. Bamboo mouth organ</i> <i>iii. Flute</i> <i>iv. Trumpet</i> <i>v. Drum</i> <i>vi. Log drum</i> <i>vii. Bamboo sound box</i> <i>viii. Leaf music</i> - Vocal- i. accurate inner hearing ii. good singing posture iii. correct breathing technique iv. good vowel and consonant sounds - Scope and future prospects of music industry 	Music compositions Music competitions
		19. Art	<ul style="list-style-type: none"> - Different art types - Drawing – method - Material required - Painting -method - Material required - Scope and future prospects of art industry 	Art competitions
20. Dance	<ul style="list-style-type: none"> - Different types of dance forms - Scope and future prospects of dance industry 	Dance competitions		

VI.	Civic Sense	21. Civic life	- Meaning of civic sense - Civic life - in the family - at the school - in the society	Case studies
		22. Care of Public Property	- Meaning of public property - Importance of public property	Group Discussions
		23. Road safety	- Meaning - Dos and don'ts - Road signs	
VII.	Career Guidance	24. Career guidance	- What is career? - Different career options - Choosing the right subject/subject combination/vocation	Career guidance seminars/ career clinics

Lesson – wise distribution

Unit	Lessons for Class IX	Lessons for Class X
I	1 & 3	2 & 4
II	5 – 7	8 – 10
III	11 & 12	13
IV	14 & 16	15 & 17
V	18	19 & 20
VI	21	22 & 23
VII	24	

Prescribed textbook:

Life skills for Secondary - **Headword Publishing Company Pvt. Ltd.**
B-40, Sector 57, Noida, UP - 201301