

## Syllabus – Class IX

### SPLIT UP SYLLABUS FOR BIOLOGY

Session : 2012-2013

**Term-I [ FA1 + FA2 + SAI] APRIL-SEP.**

**FA-I [APRIL TO JUNE]**

Chapters :-

1. FOOD:- Plant & Animal Breeding and Selection for Quality Improvement & Management; Use of Fertilisers; Manures; Protection from Pests & Diseases; Organic Farming.
2. UNIT : ORGANISATION IN THE LIVING WORLD.

Chapters:-

Cell-Basic Unit of Life; Prokaryotic & Eukaryotic Cells; Multicellular Organisms; Cell Membrane & Cell Wall, Cell Organelles; Chloroplast, mitochondria, vacuoles, Endoplasmic Reticulum, Golgi Apparatus, Nucleus; Chromosomes - basic structure, number.

**Activities/ Practicals/ Assignments:-**

1. To test the presence of
  - (a) starch in the given food sample
  - (b) Adulterant Metanil Yellow in Pulses.
2. To study the different parts of a microscope.
3. To prepare a stained temporary mount of Onion peel.
4. Class Assignment (Based on Activity Sheet)
5. Home Assignment (Based on Question Answers of Chapter)
6. Group Discussion/Quiz.

FA-II (July to August)

\* Chapters:-

UNIT - Organisation in the Living World.

Tissues - Prokaryotic, Organ System, Organism. Structure & Function of Plant Tissues (Meristematic & Permanent Tissues). Structure & Function of Animal Tissues.

**Activities/ Practicals/ Assignments.**

Practicals:-

1. To prepare stained temporary mounts of Human Cheek Cells.
2. To identify Parenchyma, and Sclerenchyma tissues in plants.
3. To identify Striped Muscle Fibres & nerve cells in animals. from prepared slides and to draw the labelled diagrams.
4. To determine the percentage of water imbibed by raisins.

\* Paper Pen Test

**(Portion for Test) :** 1. Improvement in Food Resources;  
2. The fundamental Unit of life

\* Class Assignment (Based on Activity Sheet)

\* Viva Voce based on "Hands on Practical"

\* Home Assignments (Based on NCERT Questions of Chapters Taught.)

SA - I (September)

All the Chapters for SA-I as mentioned in CBSE curriculum & taught in FAI & FAII.

## DESIGN OF SAMPLE QUESTION PAPER - 2012-13

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#### Science Class-IX Term - I

Time: 3 Hrs.

MM : 90

S.No.	Content	Marks Theory	Marks MCQ	Total Marks
1.	Food	11	2	13
2.	Matter-Its nature & behaviour	19	10	29
3.	Organisation in living world	14	4	18
4.	Motion, Force and Work	28	2	30
	<b>Total</b>	<b>72</b>	<b>18</b>	<b>90</b>

#### WEIGHTAGE OF QUESTIONS:

S. No.	Type of Questions	(Marks for each question)	(No. of questions)	Total Marks
1.	VSA	1 x 3		3
2.	SA-I	2 x 4		8
3.	SA-II	3 x 12		36
4.	LA	5 x 5		25
5.	MCQ	1 x 18		18
	<b>Total</b>			<b>90</b>

#### SCHEME OF OPTIONS:

There will be no overall choice. However, there is an internal choice in every question of 5 marks category.

#### WEIGHTAGE TO DIFFICULTY LEVEL OF QUESTIONS:

Easy 15%  
Average 70%<sup>^</sup>  
Difficult 15%

#### TYOLOGY OF QUESTIONS:

In order to assess different abilities related to the subject, the question paper includes open ended questions, drawing/ illustration based questions, communication skill based questions and activity based questions.

#### Blue Print

#### FORMS OF QUESTIONS:

S.No.	Unit	VSA	SA(I)	SA(II)	LA	MCQ	Total
1.	Food	-	-	6(2)	5(1)	2(2)	13(5)
2.	<b>Matter-Its nature and behaviour</b>						
	(a) Matter in our Surroundings	1(1)	-	3(1)	5(1)	5(5)	
	(b) Is matter around us Pure?	-	2(1)	3(1)	5(1)	5(5)	29(16)
3.	<b>Organisation in living world</b>						
	(a) Fundamental Unit of Life	1(1)	2(1)	3(1)	-	2(2)	
	(b) Tissues	-	2(1)	6(2)	-	2(2)	18(10)

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<b>4. Motion, Force and Work</b>						
(a) Motion	-	-	3(1)	5(1)		
(b) Force and laws of motion	1(1)	-	6(2)	5(1)	2(2)	30(11)
(c) Gravitation	-	2(1)	6(2)	-	-	
<b>Total</b>	<b>3(3)</b>	<b>8(4)</b>	<b>36(12)</b>	<b>25(5)</b>	<b>18(18)</b>	<b>90(42)</b>

### TERM - II (FA3+FA4+SA2)

#### [OCTOBER TO FEBRUARY]

#### FA3 [OCT - DEC]

#### Chapters:- UNIT: ORGANISATION IN THE LIVING WORLD

I. Diversity of plants and animals : Nomenclature; Major groups of plants and salient features.

Major groups of Animals and their salient features with examples.

II. Health & Diseases (Why do we Fall ill?)

Health & its failure, Infectious & Non infectious diseases; their causes and manifestation. Diseases caused by microbes of their prevention; Principles of treatment and prevention. Pulse polio programmes.

#### Activities/Practicals/ Assignments

- To study the characters of Spirogyra/ Agaricus/ Moss/ Fern; Pinus and angiospermic plants.
- To observe and draw the specimens - Earthworm; Cockroach, Bony Fish & Bird.
- Class Assignment (Based on Activity sheet framed)
- Home Assignment (Based on Questions of Exemplar problems of NCERT)
- Group Discussions/ Quiz

#### FA IV [January & February]

#### Chapters:-

1. UNIT : OUR ENVIRONMENT:-

**Chapter :** Natural Resources = Physical Resources - Air, Water and Soil. Air for respiration, for combustion, for moderating temperatures; movements of air & its role in bringing rains across India.

Bio-geochemical cycles in nature : Water, Oxygen, Carbon and nitrogen.

#### Practicals/ Activities/ Assignments

#### Practicals :-

- To study the life cycle of Mosquito.
- To study the external features of root, stem, leaf and flower of monocot and dicot plants.
- Pencil Paper Test :
  1. Diversity in living Organisms
  2. Why do we fall ill?
 (Portion of Test)
- Class Assignment (Based on Activity Sheet framed)
- Home Assignment (Based on Question Answers or Exemplar problems of NCERT)
- Viva Voce based on "Hands on Practicals".

#### SA-II (February - March)

All the chapters for SA II as mentioned in CBSE curriculum & taught in FA3 & FA4.

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### SCIENCE CLASS IX TERM - II SUMMATIVE ASSESSMENT - II

Distribution of marks - Chapterwise

S.No.	Content	Theory Marks	MCQ Marks	Total Marks
1.	Matter-Its nature & behaviour	15	2	17
2.	Organization in living world	19	6	25
3.	Motion, Force & Work	26	10	36
4.	Our Environment	12	-	12
	<b>TOTAL</b>	<b>72</b>	<b>18</b>	<b>90</b>

#### Weightage of questions

S.No.	Content	Marks for each question	No. of questions	Total Marks
1.	VSA	1	3	3
2.	SA-I	2	4	8
3.	SA-II	3	12	36
4.	LA	5	5	25
	Total Theory		24	72
5.	MCQs	1	18	18
	<b>Grand Total</b>		<b>42</b>	<b>90</b>

#### BLUE PRINT

S.No.	Form of Questions	VSA	SA-I	SA-II	LA	MCQ	Total
	Unit						
	Matter-Its Nature and Behaviour						
1.	(a) Atoms and Molecules	1(1)	-	6(2)	-	2(2)	
	(b) Structure of atom	-	-	3(1)	5(1)	-	17(7)
	Organisation in the Living World						
2.	(a) Diversity in living organisms	-	2(1)	6(2)	-	6(6)	
	(b) Why do we fall ill	-	-	6(2)	5(1)	-	25(12)
	Motion, Force & Work						
3.	(a) Floatation	-	2(1)	3(1)	-	6(6)	
	(b) Work, Energy and Power	1(1)	2(1)	3(1)	5(1)	-	36(19)
	(c) Sound	-	2(1)	3(1)	5(1)	4(4)	
	Our Environment						
4.	(a) Water, air, ozone layer	1(1)	-	3(1)	-	-	
	(b) Mineral riches in soil, biogeochemical cycles in nature, greenhouse effect	-	-	3(1)	5(1)	-	12(4)
	<b>Total</b>	<b>3(3)</b>	<b>8(4)</b>	<b>36(12)</b>	<b>25(5)</b>	<b>18(18)</b>	<b>90(42)</b>

**Note :** Numbers in parenthesis are number of questions.

# Syllabus – Class IX

## SYLLABUS FOR ART AND CRAFT

SESSION : 2012-2013

### TERM - I

#### SUMMATIVE ASSESSMENT-I - IN THE MONTH OF SEPTEMBER - 2012

MONTH	SYLLABUS FOR - ART	SYLLABUS FOR CRAFT
APRIL	1. Draw and colour :- Still Life 2. Composition :- Nature Study	1. Greeting Cards:- 2. Print Making
MAY	1. Composition :- Role of Education on Population Control	
JUNE	1. Composition : City life (Draw and colour) 2. Composition : Land Scape	
JULY	1. Poster Making :- Biodiversity connecting with Nature 2. Composition : Rainy Season	1. Book Cover Design
AUGUST	1. Composition :- Summer Season 2. Composition : Independence Day	
SEPTEMBER	1. Figure Drawing 2. Head Study	

### TERM - II

#### SUMMATIVE ASSESSMENT - II IN THE MONTH OF FEBRUARY - MARCH 2013

MONTH	SYLLABUS FOR - ART	SYLLABUS FOR - CRAFT
OCTOBER	1. Composition :- Bus - stand 2. Poster Making :- Poster on AIDS/HIVS	1. Greeting Cards - Festival
NOVEMBER	1. Still life :- (Draw and Colour) 2. Composition :- Market Place	2. Fabric Painting
DECEMBER	1. Draw and colour : Cartoon Figures	
JANUARY	1. Draw and Colour - Any Design	1. Collage Making
FEBRUARY	1. Composition : Scenery with Animal 2. Revision	
MARCH	1. Examination	

# Syllabus – Class IX

Divided Syllabus - 2012-13

## English

- Name of Text Books** - Interact In English, Literature Published by CBSE
- Main Course Book, Revised Edition
  - Interact In English, Work Book

### MONTH

### PROTION

APRIL	<p>Prose : 1. How I Taught My Grandmother To Read</p> <p>Poetry : 1. The Brook</p> <p>MCB : People (Unit-I) (Notice, Message Writing)</p> <p>Grammar : Verb Forms (Error Correction, Omission)</p> <p><b>Formative Activity for April</b></p> <p>1. Quiz on How I Taught My Grandmother to Read. Marks 10</p> <p>Poetry : 1. The Road Not Taken</p> <p>MCB : Unit II Adventure</p> <p>[Bio Sketch, Data Interpretation]</p> <p>Grammar : 1. Determiners (Sentence Reordering &amp; Transformation)</p> <p><b>Formative Activity for the month</b></p> <p>1. Book Review - Summar Assignment 10 marks.</p> <p>2. a. Essay Writing Competition in Class 10 marks</p> <p>or</p> <p>b. Chart Making on Various Career options after Std. X</p>
MAY	<p><b>Topics</b></p> <ul style="list-style-type: none"><li>• Students &amp; Career Options</li><li>• Peer Pressure &amp; Students</li><li>• Parents and Students - The Wish Clash</li><li>• Enterprising Students</li></ul> <p><b>Holidays for Summer Break</b></p> <p>Prose/ Poetry - The Road Not Taken (Continued)</p> <p>MCB -</p> <p>1. Diary Entry from Literature Ch. I.</p>
JUNE	<p>2. Factual Description of a place/ an event.</p> <p><b>Activity of June:-</b></p> <p>10 marks “Declamation (Group Wise)</p> <p>10 marks 2. Class work/ Home work Assignment/ Maintains of the class note book.</p>
JULY	<p>Prose - A Dog Named Duke</p> <p>Poetry - The Solitary Reaper</p>

## Syllabus – Class IX

MONTH	PROTION
	MCB - Environment (unit-III) (Dialogue Completion) Grammar - Future Time Reference Drama - Villa For Sale Poetry - Lord Ullin's Daughter MCB - Radio Show IX
	<b>PORTION FOR FORMATIVE ASSESSMENT - II</b>
AUGUST	<b>Total Marks 50</b> <b>Pen paper Test - 20</b> 1. A Dog Named Duke 2. Environment
	<b>MCQ - 30</b> 1. Lord Ullin's Daughter 2. The Solitary Reaper 3. Future Time Reference
SEPTEMBER	<b>Revision - (All chapters FA-I &amp; II)</b> <b>SUMMATIVE ASSESSMENT - I</b> Prose : Keeping it from Harold Poetry : The seven Ages. MCB - Mystery (Unit V) (Formal, Informal Letter)
	<b>Activity for October</b>
OCTOBER	1. Book Review during Puja Vacation 10 marks 2. Debate on 'Mystery' 10 marks
	<b>Topics -</b> <ul style="list-style-type: none"><li>• Reading Mystery stories divert - the mind of the youngsters</li><li>• Solve mystery through puzzles grow dull and dependent on answers</li></ul>
	Prose - The Man who knew too much Poetry - Oh, I wish I'd looked after me teeth. Grammar - Connectors.
NOVEMBER	<b>Activity for November</b> 1. Spin A Yarn - 10 marks 2. Teeth Project - - Self composed poem - Crossword puzzle 10 marks 3. Group Discussion - Too Much Knowledge is Harmful. 10 marks
	Prose - Best Seller
DECEMBER	Poetry - The song of Rain MCB - Children (Unit 6) (Report Writing) E-mail Writing Grammar - Reported Speech

## Syllabus – Class IX

MONTH	PORTION	
	MCB - Sports & Games (Unit 7) (Story Writing) Grammar - Prepositions	
	<b>PORTION FOR FORMATIVE ASSESSMENT - IV</b>	
	<b>TOTAL - 50 MARKS</b>	
JANUARY	<b>PEN - PAPER TEST 20 MARKS</b>	<b>MCQ 30 MARKS</b>
	1. Best Seller	1. Song of Rain
	2. Reported Speech	2. Preposition
		3. Comprehension (Gap filling)
FEBRUARY	Revision of the Portion of FA - III & FA - IV	
MARCH	<b>SUMMATIVE ASSESSMENT - II</b>	

**Both the terms must have a Book Reading project**

**The Paper has 4 sections**

- A. READING - 20 Marks
- B. WRITING - 25 Marks
- C. GRAMMAR - 20 Marks
- D. LITERATURE - 25 Marks

- A. Reading Section  
20 Marks -
- Consists of 3 passages (Factual/ Discursive/ Literary) of 400-500 words, 200-300 words and a poem less than 200 words respectively.
- Passage 1 - Supply Type - Gap Filling, Sentence Completion, Table Completion, Word Attack, Reference & Short answer
- Passage 2 - MCQ
- Passage 3 - MCQ

**NB. Out of 20 marks in Reading Section; 5 marks must be allotted for Vocabulary Test.**

- B. Writing Section -  
25 marks -
- Consists of 4 questions
- Q.1. A short composition 50 words (4 marks) (Notice/ Message/ Diary Entry)
- Q.2. Bio Sketch/ Data Interpretation/ Dialogue Writing/ Factual Description (6 marks)
- Q.3. 120 words Formal,/ Informal letter/ Email (7 marks)
- Q.4. 150 words Article/ Speech/ Report or Story. (8 marks)
- C. Grammar Section -  
20 marks
- Consists of 4 questions 5 marks each
- Q1 & Q2 MCQ Type (Gap filling, Sentence/Dialogue Completion)
- Q3, Q4 & Q5 Supply Type  
(Sentence reordering, Editing, Omission, Sentence Transformation)
- [INTEGRATED GRAMMAR]



## Syllabus – Class IX

<b>MONTH</b>	<b>PROTION</b>
D. Literature Section - 25 marks	Q1. A MCQ Type (poetry) 3 marks. Q1. B. Extract from Short Story S.Q Type 3 marks. Q1. C. Extract from play S.Q. Type 3 marks Q2. 4 out of 5 questions need to be answered each containing 2 marks (4x2=8) Q3. One out of 2 long questions, based on personal response/ Creativity/ extrapolation imagination tested 150 words (8 marks)

# Syllabus – Class IX

## Monthwise Divided Syllabus for Class - IX Mathematics

SESSION - 2012-2013

### First Term:-

Sl.No.	Month	Chapter	Contents
1.	April	Algebra a) Number System  b) Polynomials	Introduction, Irrational Numbers, Real Numbers and their Decimal Expansions, Representing Real Numbers of Exponents for Real Numbers  Introduction, polynomial in one variable, zeroes of a polynomial, Remainder Theorem, Factorisation of Polynomial, Algebraic Identities
2.	MAY	Coordinate Geometry	Introduction, Cartesian system, Plotting a point in the plane if its coordinate are given.
3.	JUNE	Geometry i) Lines and Angles	Basic Terms and Definitions, Intersecting and non-intersecting lines, pair of Angles, Parallel line and a Transversal lines, Lines parallel to the same line, Angle sum property of a triangle
4.	JULY	ii) Triangles  Mensuration (i) Heron's Formula)	Introduction, Congruence of Triangles, Criteria for congruence of Triangles, some properties of a Triangle.  Introduction, Area of a Triangle by Heron's formula, Application of Heron's formula in finding areas of Quadrilaterals.
5.	AUGUST	Geometry (ii) Triangles (contd.)	Some more criteria for congruence of Triangle. Inequalities in a Triangle
6.	SEPTEMBER -		Revision, Summative Assessment - 1 Exam.

### FORMATIVE ASSESSMENT - 1 [APRIL TO JUNE] Weightage 10%

#### ACTIVITIES & PROJECTS:

Activity No. 1	To show any irrational Numbers (Example 2, 3, 5 etc) on the number line. (Using Graph paper)
Activity No. 2	To obtain the mirror image of a given geometrical figure with respect to the X-axis and the Y-axis.
Activity No. 3	To show that the area of a Triangle is half of the product of its base and height using paper cutting and pasting.
Activity No. 4	To verify the Mid-point Theorem for a Triangle using paper cutting and posting.
Project:	History of the number "p" or History of Indian Mathematicians [To study the history of Indian mathematician and their participation in Mathematation]

## Syllabus – Class IX

Sl.No.	Month	Chapter	Contents
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### FORMATIVE ASSESSMENT - 2 [JULY ]

**Portion** 1. Number System 2. Coordinate Geometry 3. Lines & Angles (Geometry)

### SUMMATIVE ASSESSMENT - 1 [SEPTEMBER]

1. Number System - 17 marks
2. Algebra (Polynomials) - 25 marks
3. Coordinate Geometry - 06 marks
4. Geometry [Euclid's Geometry Lines & Angles, Triangles] - 37 marks
5. Mensuration [Heron's Formula] - 05 marks

Total - **90 marks**

### BLUE PRINT : SA-1 (IX) : MATHEMATICS

Unit/Topic	1	2	3	4	Total
Number system	1(1)	2(1)	6(2)	8(2)	17(6)
Algebra (Polynomials)	3(3)	4(2)	6(2)	12(3)	25(10)
Geometry (Euclid's Geom. Lines & Angles, Triangles)	2(2)	4(2)	15(5)	16(4)	37(13)
Coordinate Geometry	-	2(1)	-	4(1)	6(2)
Mensuration (Heron's Formula)	2(2)	-	3(1)	-	5(3)
<b>Total</b>	<b>8(8)</b>	<b>12(6)</b>	<b>30(10)</b>	<b>40(10)</b>	<b>90(34)</b>

### 2nd Term (Monthwise Division syllabus)

1	Algebra [Linear Equations in two variables]  October Geometry (i). Quadrilaterals]	Introduction, Linear equations, Solution of a Linear Equation, Graph of a Linear Equation in two varieties. Equations of Lines parallel to x-axis and y-axis.  Introduction, Angle Sum property of a Quadrilateral types of Quadrilaterals, parallelogram Another condition for a quadrilateral to be a parallelogram Another condition for a Quadrilateral to be a parallelogram, The Mid point Theorem.
2	Geometry (i) Construction  (iii) Areas of Parallelograms and Triangles  NOVEMBER	Introduction, Basic constructions, some constructions of Triangles.  Figure on the same base and between the same parallels, parallelograms on the same base and between the same parallels, Triangles on the same base and between the same parallels.
3.	Mensuration [Surface Areas & Volumes]  DECEMBER Statistics  Probability	& Surface area of a cuboid and a cube. Surface area of a Right Circular cylinder, cone & sphere, volume of a cuboid & a cylinder.  Introduction, collection of data, presentation of Data Graphical Representation of Data, Measures of Central Tendency  Probability - an Experimental Approach with Introduction.

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Sl.No.	Month	Chapter	Contents
		Geometry (Circles)	Introduction, circles and its Related Terms, Angle Subtended by a chord at a point. Circle Through Three Points.
	JANUARY	Geometry (Circles) Contd.	Equal chords and their Distances from the centre Angle Subtended by an Arc of a circle, cyclic Quadrilaterals.

### Revision for Summative Assessment - 2

#### FORMATIVE ASSESSMENT - 3 [Oct. to Dec.]

- ACTIVITIES :-
- To verify that the Quadrilateral form by joining the Mid-Points of the sides of a quadrilateral is a Parallelogram-
  - To show that the Area of a Parallelogram is the Product of its base and height.
  - Angles in the same segment of a circle are equal
  - To find the surface area of a right circular cylinder. [All of the above using paper cutting and pasting.

PROJECT: Design two crossward puzzle with mathematical term. OR Sample Project - PYTHAGORAS THEOREM.

#### FORMATIVE ASSESSMENT - 4 [January]

- Mensuration [Surface area & volume]
- Linear Equations in two variables
- Geometry [Area of Parallelogram & Triangles]

### 2nd Term Summative Assessment - 2

- |   |                   |
|---|-------------------|
| 1. Algebra (Contd) Linear Equations in two variables  | - 16 marks        |
| 2. Geometry (Contd.)<br>Quadrilaterals + Areas of Parallelograms and Triangles + Construction | - 38 marks        |
| 3. Mensuration (contd) Surface Areas & Volumes  | - 18 marks        |
| 4. Statistics & Probability   | - 18 marks        |
| <b>Total</b>  | <b>= 90 marks</b> |

BLUE PRINT:- As per CBSE Curricullum (Guide Lines)

### MATHEMATICS - IX [BLUE PRINT FOR SA-2]

Topic/Unit	1	2	3	4	Total
Algebra (Linear equation in two variable)	2(2)	-	6(2)	8(2)	16(6)
Geometry (Quadrilaterals, Area of 11 gms and Triangles) + Circles and constructions	2(2)	4(2)	12(4)	20(5)	38(13)
Mensuration : Surface areas & volumes	2(2)	2(1)	6(2)	8(2)	18(7)
Statistics and Probability	2(2)	6(3)	6(2)	4(1)	18(8)
<b>Total</b>	<b>8(8)</b>	<b>12(6)</b>	<b>30(10)</b>	<b>40(10)</b>	<b>90(34)</b>

## Syllabus – Class IX

### Divided Syllabus of Social Science

- Text Books :**
1. Unit 1 - India and the Contemporary World - I (History)
  2. Unit 2 - Contemporary India - 1 (Geography)
  3. Unit 3 - Democratic Politics - 1 (Political Science)
  4. Unit 4 - Understanding Economic Development (Economics)
  5. Unit 5 - Disaster Management

Session : 2012-2013

Term - 1

Formative Assessment - 1 (April - June) 50 marks

1. Project on Disaster Management - 'To identify two very recent disasters in world and to make a pictorial report on extent of its damage and the relief works.  
(Month - May) - 10 marks
  2. Map works on 'Physical feature of India' - (Location, drainage of India) (Month - June) - 10 marks
  3. Class Activity on 'Germany under Nazism' - (Political, Socio-economic condition of Germany under Nazi Rule) - (Month - April) 10 marks
  4. Class and Home Assignments - (April - June) - 10 marks
  5. To prepare a report on 'A Model Village' - (showing producing sectors, occupational pattern, infrastructures, Education, health] - (Month - April) - 10 marks
- Total = 50 marks

#### FA-I Activities

#### Activity of FA-II (Formative Assessment)

Month - July

1. Pen and paper test - 20 marks
2. Cross word puzzles - 10 marks
3. Terminology - 10 marks
4. Multiple Choice Questions - 10 marks

**Total = 50 marks**

#### Chapters for Formative Assessment - II

1. History - French Revolution
2. Geography - Location of India
3. Political Science - Democracy in the contemporary world
4. Economics - Story of Village Palampur

Month	Subject	Chapter/Content
April	History	French Revolution (Contd)
	Geography	Location of India (Comp)

## Syllabus – Class IX

Month	Subject	Chapter/Content
May	Political Science	Democracy in the contemporary world (Contd.)
	Economics	Story of Village Palampur (Contd.)
	History	French Revolution (Comp)
	Geography	India, Physical features
	Political Science	(contd.) Democracy (Comp)
	Economics	Story of Palampur (Comp)
<b>SUMMER VACATION</b>		
June	History - Nazism and the rise of Hitler	Nazism and Rise of Hitler (contd.)
	Geography	India : Physical features (comp)
	Political Science	What is democracy? Why democracy (contd.)
	Economics	People as resource (contd.)
<b>July - August - Formative Assessment - II</b>		
July	History	Nazism and the Rise of Hitler (Comp)
	Geography	Drainage of India (comp)
	Political Science	What is democracy? Why democracy? (comp)
	Economics	People as Resource (comp)
<b>FA - 1 and FA-II activities and portions are given in Page - 2</b>		
August	History	Revisions with class and home assignment
	Geography	Revisions with class and home assignments
	Political Science	Revisions and starting of 'constitutional design
	Economics	Revisions with class and home assignments. Class Tests of 4 subjects
September	<b>Summative Assessment - 1</b>	
	Potions:-	
	1. History	1. French Revolution 2. Nazism and the Rise of Hitler
	2. Geography	1. Location of India 2. India - Physical feature 3. Drainage of India
	3. Political Science	1. Democracy in the contemporary world 2. What is democracy 3. Constitutional Design
4. Economics	1. Story of Palampur 2. People as resource	

## Syllabus – Class IX

### Term - 2

October	History Geography Political Science Economics	Forest Society and Colonialism (contd) Climate (contd) Electoral Politics (contd) Poverty as a challenge (contd)
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### Activities of FA-3 (Formative Assessment)

#### Each activity of 10 marks

- |                              |   |
|------------------------------|---|
| 1. Political Science         | To prepare an Electronic Voting Machine and a short note on the function of it (Workable model in group activity) |
| 2. Geography                 | Bar graph, Line graph and Histogram (Individual activity in a graph file)   |
| 3. Economics                 | Project in group on Finding out the status of poverty in nearby area with preformed questionnaire                 |
| 4. Class and Home Assignment |   |
| 5. Map file of Geography     |   |

#### Portion for FA-4

1. History - Society and Colonialism
2. Geography - Climate
3. Political Science - Electoral Politics
4. Economics - Poverty as a challenge

Month	Subject	Chapter
November	1. History	Forest Society and Colonialism (comp)
	2. Geography	Climate (comp)
	3. Political Science	Electoral Politics (comp)
	4. Economics	Poverty as a challenge (comp)
December	History	Peasants and farmers (contd)
	Geography	Natural Vegetation and Wildlife (contd)
	Political Science	Working of the institution (comp)
	Economics	Food security of India (comp)
January	History	The story of cricket (comp)
	Geography	Natural Vegetation and wildlife (comp)
	Political Science	Democratic Rights (comp)
	Economics	Revision
February	History	Revision
	Geography	Revision
	Political Science	Revision
	Economics	Revision

## Syllabus – Class IX

### Summative Assessment -II

#### Portion of SA-II

- |                      |                                    |
|----------------------|------------------------------------|
| 1. History           | 1. Forest Society and Colonialism  |
|                      | 2. Peasant and farmers             |
|                      | 3. Story of Cricket                |
| 2. Geography         | 1. Climate                         |
|                      | 2. Natural Vegetation and Wildlife |
| 3. Political Science | 1. Electoral Politics              |
|                      | 2. Working of the institutions     |
|                      | 3. Democratic Rights               |
| 4. Economics         | 1. Poverty as a challenge          |
|                      | 2. Food security of India          |

### M arks Division and Blue Print

#### as per the instruction of CBSE

FA-1 = 50 (10%)

FA-2 = 50 (10%)

SA-I = 90 (30%)

FA-3 = 50 (10%)

FA-4 = 50 (10%)

SA-2 = 90 (30%)

History = 23 marks

Geography = 23 marks

Political Science = 22 marks

Economics = 22 marks



# Syllabus – Class IX

## Computer

Session : 2012-2013

### TERM - FAI

April

#### **Convergence : Computer**

Characteristics and working of computer, processing of Data, functional elements of a CPU.

#### **Computer Devices**

Input Devices, (Keyboard, Mouse, Joystick, Scanner, OMR, OCR, MICR, Graphic Tablet, Light Pen, Bar Code Reader, Microphone, Digital Camera etc.) Hardware element of a CPU, Memory and Storage Devices (Primary Memory, Cache Memory, Units of Storage, Secondary Memory) Auxiliary Memory) Motherboard, SMPS, Processor, Posts and Cards, Output Devices (Pointer, Speaker, Plotter, Monitor).

#### **Co-Scholastic Area and Activity**

**Class work** : To solve different types of question answers.

**Activity** : To make a presentation on COMPUTER and COMPUTING DEVICES to explore new areas where IT Tools can be applied, to develop THINKING SKILLS.

May

#### **Software**

Application Software (Application Package, Customized Package), System Software), Specific purpose Application software (Accounting Management System, Reservation System, H.R. Management System, Parole system, Attendance Management system, School Inventory control system, Billing system) Utility S/w, Virus, Scanner/Cleaner, Encryption/Decryption Tools.

**Class work** : To solve all possible question answers based on Software chapter from exercise and from inside of chapter.

**Activity/Homework** : To make a presentation/data collection - related with usage of freeware software as a social issue.

### TERM - FA - II

June

#### **Operating System (GNU LINUX)**

Classification of OS, History of LINUX, Distributions of Linux, Features of Linux, Terms related to Mouse, Keyboard, Shortcuts in Linux.

**Activity work** : Lab Assignment related to the Topic (LINUX), Typing practice and use of keyboard shortcuts.

July

The KDE-Desktop (Icons-Home, Trash, Panel, System Tray, clock applet, main menu button), Basic Components of a window screen in KDE, Pop-up menu, File Manager, Working with Files and Folders (Create, Move, copy, Rename, Delete), Viewing the properties of a File/Folder, Creating shortcut of a program/Application/File or Folder, Basic Accessories of Linux in KDE Environment (KWrite Kcalc).

**Class work** : Solving question, answers from completed chapter.

**Activity** : To make assignment based on the use of different types of operating system, its facilities, advantages and disadvantages.

AUG

#### **WORDPROCESSOR**

Features of a word processor, Parts of the screen of a word processor, working with writer (create, open, close, save, print a document), Editing text (Undo, Redo, Copy, Cut, Paste, Find and Replace etc.). Formatting the document, format paintbrush, Paragraph formatting (Text Alignment, Indentation, Line Spacing, Paragraph spacing, Page Formatting (Page Orientation, Margin etc.

## Syllabus – Class IX

- Class work** : Solving of questions from exercise and inside of chapter.  
**Activity** : Making of Poster, leaflet in word processor for school as a part of THINKING SKILL.

### Sep. **Additional Features of Word processor**

Inserting symbol, Date and Time, and Pictures, Bullets and Numbering, Spelling and Grammar, Tables, Borders and shadows.

- Class work** : Solving of questions from inside of chapter and exercise.  
**Activity** : Project work based on covered topics to improve SCIENTIFIC SKILL.

### **REVISION**

### **SA-I**

### **FA-III**

### OCT Additional Features of Word Processor

Simple Mathematical Expression, Auto Format, Mail Merge, Track Changes.

**Class work** : Discussion of questions from above mentioned chapter

**Activity** : Lab Assignment Related to the topic.

### Nov. Convergence : Communication Technology

Introduction to N/W, Advantages of Networking, Types of Network, Internet, Interspace (cyberspace), Media of communication, Convergence in content Technology, Data and Information, Multimedia and its usage.

**Graphical Presentation** : Components of a presentation, uses of presentation package, Impress, Making presentation, Inserting Information in a slide (Text, Text Box, Object) Slides Layouts, Viewing presentation, Editing and Formatting a slide.

**Class work** : Solving of questions from inside of chapters and exercise.

**Activity** : Group of students can make a presentation package using word, spreadsheet, presentation S/W, and be involved in a school program and develop THINKING SKILLS.

Lab assignment related to the covered topics

### **FA-IV**

### DEC **Effects in Presentation** :

Inserting pictures from files, Inserting Movie or sound in a slide, Custom Animation, Slide Transition, Setting Timing for a slide show, Date and Timing Text Box, Grouping and Un-Grouping pictures, Hiding Slides.

### **Spreadsheet package** :

Features of spreadsheet package, parts of a workbook screen, Types of data, Entering Data in worksheet, Moving in a worksheet (using mouse, keyboard, and other shortcut keys), opening an existing workbook, printing a worksheet, working with workbook (Add, Delete, Rename, Move, Copy, Hide, Unhide sheets), Navigation, Editing in a worksheet, Formatting cells, AutoFill, Custom List.

**Class work** : Solving of questions from inside of chapter and from exercise

**Activity** : Lab Assignment related to the topics.

Students can explore areas for career and opportunities in IT. Fields as a part of SOCIAL WORK.



Syllabus – Class IX

SYLLABUS FOR CLASS IX - 2012-2013

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TERM 1 - APRIL TO SEPTEMBER - FA-I + FA-II + SA-I

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FA-I - APRIL TO JUNE

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FA-II - JULY

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TERM 2 - OCTOBER TO FEBRUARY - FA-III + FA-IV + SA-II

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Syllabus – Class IX

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FA-III - OCTOBER TO DECEMBER

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FA-IV - JANUARY

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SA-II ¼90 vad½

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- 5- laKk 3 vad v-y-m- iR; & 2 vad v-y-m-
- 6- dkjd 2 vad v-y-m- lekl & 2 vad v-y-m
- 7- loZuke 3 vad v-y-m- laKk & 2 vad v-y-m-

Syllabus – Class IX

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Syllabus – Class IX

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## Syllabus – Class IX

### SPLIT UP SYLLABUS SUBJECT - PHYSICS

Session : 2012-2013

#### TERM - I [FA-I+FA-II+SA-I]

[APRIL to SEPTEMBER]

#### FORMATIVE ASSESSMENT - I [APRIL to JUNE]

**UNIT :** Motion, Force and Work.  
**CONTENTS :** Distance and displacement, velocity, Uniform and non-uniform motion along a straight line acceleration, distance - time and velocity - time graphs for uniform motion and uniformly accelerated motion, equations of motion by graphical method, uniform circular motion.

#### Activities/ Practicals/ Assignments :

**Class Assignments :** Based on activity sheet framed, question based on graphs, assessment based on numericals

**Home Assignment :** Based on NCERT questions

Group Discussion/Quiz

#### FORMATIVE ASSESSMENT - II [JULY to AUGUST]

**UNIT :** Motion, Force and Work  
**CONTENTS :** Force and Newton's Laws :- force and motion, Newton's laws of motion, inertia of a body, inertia and mass, momentum, force and acceleration, conservation of momentum, action and reaction forces  
**Gravitation :** Universal law of gravitation, Gravity or force of gravitation of the earth, acceleration due to gravity, mass and weight, free fall.

#### Activities/ Practicals/ Assignments:

**Experiment - (i) :** To study the third law of motion using two spring balances.

**Class Assignment :** Based on activity sheet framed assessment based on numericals.

**Home Assignments :** Based on NCERT question from the text.

**Written Test - Portion :** Motion upto uniform circular motion.

SEPTEMBER - SA-I Portion - Topics taught in FA-I and FA-II as prescribed by CBSE curriculum.

#### TERM - II [FA-III+FA-IV+SA-II [OCTOBER to MARCH]

#### FORMATIVE ASSESSMENT - III [OCTOBER to DECEMBER]

**UNIT :** MOTION, FORCE and WORK  
**CONTENTS :** Flotation : Thrust and pressure, Archimedes principle, buoyancy, relative density work, energy, power: Work done by a force, energy, power, kinetic and potential energy, law of conservation of energy  
**Sound :** Production of sound, nature of sound wave and its propagation in various media speed of sound.

#### Activities/ Practicals/ Assignments

## Syllabus – Class IX

**Experiment (1)** : To determine the density of solid (denser than water) by using a spring balance and a measuring cylinder.

**Experiment (2)** : To establish the relation between the loss in weight of a solid when fully immersed in (a) tap water (b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.

**Experiment (3)** : To observe and compare the pressure exerted by a solid iron cuboid on fine sand/ wheat flour while resting on its three different faces and to calculate the pressure exerted in the three different cases.

**Class Assignment** : Based on activity sheet framed. assessment based on numericals.

**Home Assignment** : Based on NCERT questions from the text.

FORMATIVE ASSESSMENT - IV [JANUARY, FEBRUARY]

**UNIT** : MOTION, FORCE AND WORK

**CONTENTS** : Sound :- Range of hearing in human, ultrasound, reflection of sound, echo and SONAR, structure of the human ear (auditory aspect only)

**Activities/ Practicals/ Assignments :**

**Experiment (4)** : To verify laws of reflection of sound

**Experiment (5)** : To determine the velocity of a pulse propagated through a stretched string/slinky.

**Class Assignment** : Based on activity sheet framed

**Home Assignment** : Based on NCERT question from the text.

**Written test - Portion** : Work, energy and power

FEBRUARY - MARCH- **Summative Assessment - II**

Portion : Topics taught in FA-III and FA-IV as prescribed by CBSE curriculum

## Syllabus – Class IX

Syllabus of Class - IX 2012-2013

**Subject - CHEMISTRY**

Session : 2012-2013

**Term - I (April to September)**

**FA-I (April to June)**

**Unit** : Matter in our surrounding

**Contents** : Classification of matter as solids, liquids and gases. Properties of solid, liquids and gases. Diffusion, change of state of matter, Effect of change of temperature : Melting (Fusion), Boiling (Vaporisation); condensation and freezing. Latent heat of fusion and vaporation. Factors affecting evaporation.

**UNIT** : Is matter around us pure.

**Contents** : Elements, compounds and mixtures. Types of solutions and properties of solutions Properties of colloids, suspension, physical and chemical change. Separation of mixtures of two solids and two liquids. Filtration, centrifugation, evaporation, crystallisation fractional distillation.

**Activities**

1. To study the change of state of sublimate solid on heating.
2. Prepare a model to demonstrate the intermolecular distance of solids, liquids and gases.

**Practical**

1. To prepare a true solution of common salt, sugar and alum.  
Prepare a suspension of soil, chalk powder, sand.  
Prepare a colloidal solution of starch in water.
2. To prepare a mixture and a compound, using iron filings and sulphur powder.

**Home Assignment** : NCERT based Questions.

**FA-II (Written Test)**

**Matter in our surrounding**

**Term-II (October to March)**

**FA-III (October to December)**

**UNIT** : Atoms & Molecules

**Contents** : Laws of chemical combination Dalton's atomic theory. Symbols of elements and atomic mass of an elements. Chemical formula. Molecular mass of ionic compounds Gram atomic mass and mole concept.

**UNIT** : Structure of Atom.

**Contents** : Discovery of electron proton and neutrons and their characteristics. Rutherford's Alpha particle scattering experiment, Rutherford's model of an atom and its drawback, Bohr's Model. Atomic number and mass number Arrangement of electrons in the atoms and the electronic configuration of elements, valence electrons, valency of elements. Isotopes and their application, Isobar.

**Activities**

1. Prepare the diagram of electron distribution of 1 to 20 elements in the periodic table.
2. Verify the law of conservation of mass in a chemical reaction.

## Syllabus – Class IX

**Practicals** : To carry out the following chemical reactions

- (i) Iron with copper sulphate solution in water.
- (ii) Burning of magnesium in air.
- (iii) Zinc with dilute sulphuric acid
- (iv) Heating of lead nitrate
- (v) Sodium sulphate with barium chloride.

**Home Assignment** :Based on NCERT Questions.

**FA-IV**

**Written test - Atoms & Molecules**

Syllabus – Class IX

**Syllabus of Class-IX**

**Session : 2012-2013**

- Books — 1) SáJý aŮ@ü]R (latest Edition)- SâsEýXUşÿ XQóâ^öüá S\_PP, @ü]@üáNýá  
 2) S÷ííUâ^@üá UáŮ]á Uóá@ü[M < [ýEýRá - âRXP] @âüXá[ Páa, <â[ííZmý ýá]  
 3) #áX #ŮáâyÍý[ íWŮýSá (1929)- îâUWæýâNý Wæý\_M UíimPóáSáQóáZ-âaBííRýI

**Term-1 April- September (FA-1+FA- 2+SA-1)**

<b>FA-1</b>	SáJ ý aŮ@ü]R	Uóá@ü]M	âRâX°ý	#áX #ŮáâyÍý[ íWŮýSá
<b>April</b>	(BPó) aáB[ aşÿííX RU@âüXá[	y‡[aâl,ý	S¼ [ýEýRá(Ůóââ°ýöBNý)	1 < 2 RŮ #QóáZ #RâííFýP Ú íNýáXá[ âS÷Z @üâU
<b>MAY</b>	@üâUNýá Ú #áBXRâ	Uá@üó Sá[UNPýR	íUáQ S[âöüM Ú	3 < 4 RŮ #QóáZ (#OPáRâaáíí)
<b>June</b>	BPó Ú #âd...ííPííU[ ^Yóá	Uá@üó Sá[UNPýR (#OPáRâaáíí)	#RâííFýP Ú âR[öü[Nýá Pæ[â@ü]M	5 < 6 RŮ #QóáZ

**FA-1 (SyllAbuS) April-June Full MARKS : 50**

- 1) [Uâü @üâUNýá #áUçâ°ý (SáJýó Sáy, ý@ü UâbWpæý Ný)0
- 2) NýáÖöüâM@ü U°ýçöNýá -ýFýá¼ aXáííG[ PáâZNýşÿ 10 @üNpýUó
- 3) S÷@üq† - aáâbNýó axöýáyÍý UâÿýXýEýú ýEýíµ ýáSáQóáZ[  
açâtËý aXæb
- 4) ýEýáyÍPý - Wýá[NýãZ \*Ø@üó (Wýá[NýNýãOP @üâUNýá #U]x‡ííR)
- 5) í^÷Rã[ @üáG < UáKòýã[ @üáG 10

<b>July</b>	(SPó) @üá]íí@üNáý[ âR@üýÍý WŮýág.èýP°ý (BPó) bá[ëM aáíí]ííX[ Xáâa	aXáOP@ü ^oP	S¼ [ýEýRá, íUáQ S[âöüM	7 < 8 RŮ #QóáZ #RâííFýP Ú âU-áR #âWý^ás Rá #á^PâUáP
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**FA-2 (SyllAbuS)**

- 1) SáJý aŮ@ü]R  
@ü] aáB[ aŮBííX .....5  
A) #áBXRâ .....5
  - 2) Uóá@ ü]M - y‡[aâl,ý .....5
  - 3) #áX #ŮáâyÍý[ íWŮýSá .....5
- 1,2,3 RŮ #QóáZ Total 20

**Full MARKS : 20+30 = 50**

SáJý aŮ@ü]R (S.A) 10×1 = 10
Uóá@ü]M (MCQ) 10×1 = 10
#áX #ŮáâyÍý[ íWŮýSá (S.A) 10×1 = 10
Total 30

<b>Aug.</b>	(BPó) bá[ëM aáíí]ííX[ Xáâa (SPó) Wýá[NýNýãOP	UáBQá[á	#RâííFýP Ú GáNýãZ aŮbâNýşÿ 10 RŮ #QóáZ íNýáXá[ íPáá *@üâyÍý íX]á
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## Syllabus – Class IX

SEp.	SâR[áUçâ°ý	<b>SuMMAtive ASSeSSMent-1</b> <b>terM-2 OctOber-MARch (FA3+FA4+SA2)</b>
Oct.	(SP6) âýFýl...S¼	aXáa-NýÖSâ[ë_, S¼ [ýEýRá, íUáQ S[ãœüM 11 < 12 RÛ #QóáZ U{Uöââb, âk‡ü #RâüíFýPíNýáXá[ #âP^P XbáSâ[ë_
NOv.	(SP6) \$r‡[ýEýú âUPóáááB[	UáÛ]á @çüÖ S¼ [ýEýRá#âíUPR S¼) 13 < 14 RÛ #QóáZ < Nýák,,ýNý S÷NýóZ#RâüíFýPí@üáýÍy ÆXiíR[ #âWý-Nýá
DEc.	(BP6) Sq%öâaXáG (SP6) @üU[	*@ü @üOáZ S÷@ü#RâüíFýPS÷âNýóâb@ 15 < 16 RÛ #QóáZ GâUííR âUPáóííN ý[ PáR
		<b>Full MARKS : 50</b>
		<b>FA 3 (SyllAbuS)</b> 1) RG[ë] bÛya]áííX[ @üâUNýá #áUçâ° 10 2) NýáÖœüâM@ü U°ýçôNýá-ííNýáXá[ GâUííR[ yŠ[MãZ CýÍýRá 10 3) S÷@üq†-GãURáRmP Pá^ < NÛýá[ açâtËý aXæb 10 4) ýEýáyÍPý- UáÛ]á[ â^q† < aÛyËçýâNý 10 5) í^÷Rã[ @üáG < Bçb@üáG 10
JaN.	(BP6) íRáRáG] (SP6) UáÛ]á[ XáA #áâX íPâAZááýFý	Uáíí@üó[ #}üâk,,ý #RâüíFýPG] Ú< UáZá 17, 18,19 RÛ aÛíí^áQR Pæ_R, íNýáXá[ âS÷Z B÷wf#QóáZ
		<b>FA-4 (SyllAbuS)</b>
		1) SáJý aÛ@ü]R FuLL MarkS : 20+30 = 50 @ü) âýFýl...S¼ 5 SáJý aÛ@ü]R (S.A) 10×1 = 10 A) \$r‡[ýEýú âUPóáááB[ Uóá@ü[M (McQ) 10×1 = 10 2) Uóá@ü[M -aXáa, 5 #áX #ÛááýÍý[ íWÛýSâ (S.A) 10×F = 10 3) #áX #ÛááýÍý[ íWÛýSâ- 11,12RÛ #QóáZ 5 total 50 total 50
FEb	SâR[áUçâ°ý	riviSiON
March	<b>SuMMAtive ASSeSSMent-2</b>	

## Syllabus – Class IX

### examination Structure for Summative assessment Subject- Bengali Session : 2012-2013

Section	content	type	no. of Ques.	Marks
Section-a (reading)	3 unseen passage of 500 words each one grammar based question is must from each passage of one mark	McQ	03	3×5 = 15
				<b>total = 15</b>
Section-b (Writing)	i) Letter	L.a.	01	4+3 = 7
	ii) paragraph writing	L.a.	01	= 8
				<b>total = 15</b>
Section-c	Grammar	McQ	04	4×5 = 20
				<b>total = 20</b>
Section-D	i) prose a Explanation	L.a.	01	1×5 = 15
	b Question	S.a.	02	2×5 = 10
	ii) poetry a Explanation	L.a.	01	1×5 = 15
	b Question	S.a.	02	2×5 = 10
	iii) Supplementary reader	S.a.	02	2×5 = 10
				<b>total = 40</b>

Section a : reading comprehension : 15 Marks

Section b : Writing : 15 Marks

Section c : Grammar : 20 Marks

Section D : Literature : 40 Marks

total : 90 Marks