



METAS
SEVENTH-DAY
ADVENTIST
 HIGHER SECONDARY SCHOOL
 RANCHI - 9



CLASS XII
(SCIENCE)
BOOK LIST 2015 - 16

SUBJECT	S. NO	NAME OF BOOKS	PUBLICATION
EBGLISH(DRAMA)	1.	Much Ado About Nothing T/B	Full Marl Pvt.
	2.	Much Ado About Nothing W/B	Beeta Pub.
ENG(PROSE & POETRY)	3.	ISC Collection Of Short Stories	Inter Univ. Press
	4.	ISC Collection Of Poems	Inter Univ. Press
ENG (GRMMAR)	5.	Art Of Effective English Writing	S. Chand
HINDI	6.	Nirmala	Evergreen
	7.	Jowala Mukhi Ke Phul	Inter Univ. Press
	8.	Katha Surbhi	Janta Book Depot
MATHS	9.	ISC Mathematics	S. Chand
PHYSICS	10.	ISC Physics Book II	S. Chand
	11.	ISC Physics Lab Manual	Nova Pub.
CHEMISTRY	12.	ISC Chemistry Book II	S. Chand
	13.	ISC Chemistry Lab Manual	Nova pub.
BIOLOGY	14.	ISC Biology For Class XII	S. chand
	15.	Isc Biology For Lab Manual	Nova publication
COMPUTER SCIENCE	16.	Understanding ISC Computer Science	APC
P.T	17.	Manak Health & Physical Education	Hitaishi Pub. Pvt. Ltd
MORALS	18.	Higher Value Education XII	OWPH

2015 – 16 SYLLABUS

STD:XII SCIENCE

SUBJECT: ENGLISH II

BOOK NAME: MUCH ADO ABOUT NOTHING T/B

PUBLICATION: FULL MARK PVT.

BOOK NAME: ISC COLLECTION OF SHORT STORIES

PUBLICATION: INTER UNIV. PRESS

BOOK NAME: ISC COLLECTION OF POEMS

PUBLICATION: INTER UNIV. PRESS

MONTH	S. NO	LESSON
APRIL	1.	A Real Durwan (Prose)
	2.	Act III Sc (I)
MAY	3.	Phenomenal Woman (Poem)
	4.	Act III Sc (II)
JUNE	5.	The Lumber Room
	6.	Act III Sc (III)
JULY	7.	The Legend Of Sleepy Hollow (Prose)
	8.	Act III Sc (IV)
AUGUST	9.	Breaking Out
	10.	Act III Sc (V)
FIRST TERMINAL EXAMINATION		
SEPTEMBER	11.	One Thousand Dollar
	12.	Act IV Sc (I)
OCTOBER	13.	Father Returning Home
	14.	Act IV Sc. (II)
NOVEMBER		Revision
DECEMBER	FIRST PRELIMINARY EXAMINATION	
JANUARY	SECOND PRELIMINARY EXAMINATION	

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- 1 to 10

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO:- 11 to 14

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- whole book

Examination Pattern

As per board ICSE Pattern

2015 – 16 SYLLABUS

STD:XII SCIENCE

SUBJECT: ENGLISH I

BOOK NAME: ART OF EFFECTIVE ENGLISH WRITING

PUBLICATION: S.CHAND

MONTH	S. NO	LESSON
APRIL	1.	Transformation Of Sentence
MAY	2.	Transformation Of Sentence
JUNE	3.	Report Writing
JULY	4.	Essay Writing
AUGUST	5.	Comprehension Passage
FIRST TERMINAL EXAMINATION		
SEPTEMBER	6.	Preposition
OCTOBER	7.	Report Writing
NOVEMBER		Revision
DECEMBER	FIRST PRELIMINARY EXAMINATION	
January	SECOND PRELIMINARY EXAMINATION	

1ST PRELIM EXAM (NOV)

LESSON NO:- 1 to 5

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO:- 6,7

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- whole book

Examination Pattern

As per board ICSE Pattern

STD: XIII SCIENCE

SUBJECT: MATHS

BOOK NAME: ISC MATHEMATICS

PUBLICATION: S. CHAND

MONTH	S. NO	LESSON	PAGE
APRIL	1.	Determinants	1.3 – 1.59
	2.	Matrices	2.3 – 2.89
	3.	Boolean Algebra And Switching Circuits	3.3 – 3.52
MAY	4.	Conics	4.3 – 4.58
	5.	Inverse Trigonometric Functions	5.3 - 5.46
	6.	Differentiation	6.3 - 6.78
	7.	In terminate Forms Of Limit	7.3 – 7.19
JUNE	8.	Mean Value Theorems	8.3 – 8.20
	9.	Maxima And Minima	9.3 – 9.43
JULY	10.	Integration	10.3 – 10.21
	11.	Standard Method Of Integration	11.3 – 11.39
	12.	Special Integrals	12.3 – 12.40
	13.	Definite	13.3 – 13.41
	14.	Application Of Definite Integrals	14.3 – 14.35
AUGUST	15.	Correlation	15.3 – 15.28
	16.	Regression Of Analysis	16.3 – 16.37
FIRST TERM EXAMINATION			
SEPTEMBER	17.	Probability	17.3 – 17.93
	18.	Complex Number	18.3 – 18.75
	19.	Differential Equation	19.3 – 19.44
OCTOBER	20.	Vectors	20.3 – 20.68
	21.	Straight Line In Space	21.3 – 21.43
NOVEMBER	22.	The Plane	22.1 – 22. 52
	23.	Further Probability	23.3 – 23. 23
	24.	Probability Distribution	24.1 – 24. 37
DECEMBER	FIRST PRELIMINARY EXAMINATION		
JANUARY	SECOND PRELIMINARY EXAMINATION		

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:-1 TO 14

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO.: 15 to 24

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- WHOLE BOOK

Examination Pattern

As per board ICSE Pattern

STD: XIII SCIENCE

SUBJECT: PHYSICS

BOOK NAME: ISC PHYSICS BOOK II

PUBLICATION: S. CHAND

MONTH	S. NO	LESSON	PAGE
APRIL	1.	Unit I : Electrostatics	3 – 225
MAY	2.	Unit II : Current Electricity	229 – 384
JUNE		Current Electricity	385 – 432
JULY	3.	Unit III: Magnetism	435 – 512
AUGUST	4.	Unit IV: Electromagnetism	515 – 659
First Terminal Examination			
SEPTEMBER	5.	Unit IV: Electromagnetism	660 – 700
	6.	UNIT V: Alternating Current Circuit	703 – 788
	7.	Unit VI: Wave Optics	791 – 916
	8.	Unit VII: Ray Optics & Optical Instruments	919 – 1081
OCTOBER	9.	Unit VIII: Electrons & Photons	1085 – 1155
	10.	Unit IX: Electrons & Photons	1159 – 1204
NOVEMBER	11.	Unit X: Nuclei	1207 – 1284
	12.	Unit XI: Semi Conductor Devices	1287 – 1284
	13.	Unit XII: Communication Systems	1407 – 1435
DECEMBER	FIRST PRELIMINARY EXAMINATION		
JANUARY	SECOND PRELIMINARY EXAMINATION		

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- 1 to 4

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO.: 5 to 13

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.-

WHOLE Book

Examination Pattern

As per board ICSE Pattern

STD: XIII SCIENCE**SUBJECT: CHEMISTRY**

BOOK NAME: ISC CHEMISTRY BOOK II

PUBLICATION: S. CHAND

MONTH	S. NO	LESSON	PAGE
APRIL	1.	Relative Molecular Mass & Mole	3 – 88
	2.	States Of Matter: Structure And Properties Of Solid State	89 – 156
	3.	Chemical Kinetics	157 – 270
MAY	4.	Chemical Kinetics (Continue)	
	5.	Coordination Compound	579 – 652
	6.	Alcohol And Phenols	1114 – 1197
JUNE	7.	Alkyl And Aryl Halides	10449 – 1113
JULY	8.	Ether And Carbonyl Compounds	1198 – 1268
	9.	Chemical Equilibrium	271 – 331
AUGUST	FIRST TERMINAL EXAMINAION		
SEPTEMBER	10.	Ionic Equilibrium	332 – 444
	11.	Chemistry Of P Block Elements	653 – 694
		Elements : Group 16, 17, 18	
	12.	Preparation/Manufacture, Properties And Uses Of Compounds Of G.R 16, 17, Ozone, Sulphur Dioxide, Sulphuric Acid And Hydrochloric Acid	788 - 849
OCTOBER	13.	Carboxylic Acid And Acids Derivative	1269 – 1368
	14.	Electrochemistry	445 - 575
	15.	Cyanides, Isocyanides, Nitro Compounds And Amines	1369 – 1452
NOVEMBER	16.	Chemistry Of Transition And Inner Transition Elements	850 – 1045
	17.	Polyamines	1453 – 1488
	18.	Biomolecules	1489 – 1564
DECEMBER	FIRST PRELIMINARY EXAMINATION		
JANUARY	SECOND PRELIMINARY EXANINATION		

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- 1 to 9

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO.: 10 to 18

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- whole book

Examination Pattern

As per board ICSE Pattern

STD: XIII SCIENCE

SUBJECT: BIOLOGY

BOOK NAME: ISC BIOLOGY FOR XII

PUBLICATION: S. CHAND

Month	Chap. No.	Title
APRIL	1	Origin Of Life
	3.	Plant Tissues
	4.	Absorption & Movement Of Water In Plants
MAY	8.	Fundamentals Of Genetics
	9.	Genes And Chromosomes
JUNE	7.	Human Reproduction
JULY	10.	Dna-Genetic Material
	12.	Crop Improvement
	13.	Biodiversity And Conservation
AUGUST	2.	Theories Of Evolution
		I Terminal Examinations
SEPTEMBER	5.	Photosynthesis
	11.	Recombinant DNA Technology
	14.	Microbes In Human Welfare
OCTOBER	6.	Reproduction In Angiosperms
	15.	Human Diseases
	16.	Human Health And Diseases
NOVEMBER	17.	Biomedical Engineering
	18.	Human Population
	19.	Animal Husbandry
DECEMBER		FIRST PRELIMINARY EXAMINATIONS
JANUARY		SECOND PRELIMINARY EXAMINATIONS
FEBRUARY		STUDY LEAVE

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- Chapters 1, 3, 4, 7, 8, 9, 10, 12, 13

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO.: 2, 5, 6, 11, 14, 15, 16, 17, 18, 19

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- **whole book**

Examination Pattern

As per board ICSE Pattern

2015 – 16 SYLLABUS

STD: XIII SCIENCE

SUBJECT: COMPUTER SCIENCE

BOOK NAME: UNDRSTANDING ISC COMPUTER SCIENCE

PUBLICATION: APC

MONTH	S. NO	LESSON	PAGE
APRIL	1.	Propositional Logic	3 – 16
	2.	Boolean Algebra	17 – 51
MAY	3.	Object And Classes	99
	4.	History And Development Of Java	109
JUNE	5.	Primitive Values, Operators And Expressions	155
JULY	6.	Array	227
	7.	Data Structure	535
AUGUST	8.	Conditional Statements And Loop	136
	9.	Computer Hardware	52
FIRST TERMINAL EXAMINATION			
SEPTEMBER	10.	String Manipulators	188
	11.	Methods/ Functions	307
OCTOBER	12.	Class As User Defined Data Type, Constructor	354
	13.	Inheritance And Polymorphism	487
NOVEMBER	14.	File Operations In Java	433
	15.	Computational Complexity And Big O Notation	607
DECEMBER	FIRST PRELIMINARY EXAMINATION		
JANUARY	SECOND PRELIMINARY EXAMINATION		

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- 1, 2, 3, 4, 8, 13

Examination Pattern

As per board ICSE Pattern

1ST PRELIM EXAM (NOV)

LESSON NO.: **7, 9, 10, 11, 12, 14**

Examination Pattern

As per board ICSE Pattern

2ND PRELIM EXAM (JANUARY)

LESSON NO.- **WHOLE BOOK**

Examination Pattern

As per board ICSE Pattern

2015 – 16 SYLLABUS

STD: XIII SCIENCE

SUBJECT: MORALS

BOOK NAME: HIGHER VALUE EDUCATION XII

PUBLICATION: OWPH

MONTH	S. NO	LESSON	PAGE
APRIL	1.	Just in time	7
	2.	The savior is born	12
	3.	The baptism of Jesus	17
	4.	The temptations	21
MAY	5.	At the marriage feast	31
	6.	He must increase	39
JUNE	7.	The sermon on the mount	43
	8.	Peace be still	56
	9.	The touch of faith	63
JULY	10.	Barriers broken down	68
	11.	Concept of the greatest	73
	12.	No outward show	83
AUGUST		Revision	
FIRST TERMINAL EXAMINATION			
SEPTEMBER	13.	Gethsemane	93
	14.	Calvary	97
	15.	It is finished	110
	16.	The lord is risen	
OCTOBER	17.	Peace be unto you	123
NOVEMBER		Review (chapter 1 – 17)	7 – 128
DECEMBER	FIRST PRELIMINARY EXAMINATION		
JANUARY	SECOND PRELIMINARY EXAMINATION		

Examination Portion

1st Terminal Examination Portion

(April to July)

Lesson No:- 1 TO 12

EXAMINATION PATTERNS

1. All memory verses are important
2. Words identification and meaning
3. Questions to be answered in detail.

1ST PRELIM EXAM (NOV)

LESSON NO.:CHAPTERS 13 TO 17

EXAMINATION PATTERNS

- 1. All memory verses are important**
- 2. Words identification and meaning**
- 3. Questions to be answered in detail.**

2ND PRELIM EXAM (JANUARY)

LESSON NO.- **WHOLE BOOK**

EXAMINATION PATTERNS

- 4. All memory verses are important**
- 5. Words identification and meaning**
- 6. Questions to be answered in detail.**