

ENGLISH LANGUAGE**BOOK: ISC ENGLISH PRACTICE BY J. A MASON OXFORD
FIRST TERM**

Month	Topic	Period
April	<i>Composition Month</i> Transformations, Tenses, Prepositions, Phrasal verbs & 2 units of grammar from ISC Practice and Debate.	18
May	Transformations, Tenses, Prepositions, & 2 grammar units from Text.	7
June	<i>Report Writing Month</i> Transformations, Prepositions, Tenses Vocab, & 2 grammar units, Group discussion.	12
July	<i>Comprehension Month</i> Transformations, Tenses, Prepositions, & 4 grammar units, Speaking Skills.	18
Aug	<i>Proposal Writing Month</i> Transformations, Tenses, Prepositions, & 4 grammar units	18
Sept	Revision	

SECOND TERM

Month	Topic	Period
Oct	Transformations, Tenses, Prepositions, Vocabulary, & 2 grammar units.	10
Nov	5 grammar units, besides rev work	16
Dec	The remaining grammar units to be completed; Revision of ISC Format and complete syllabus.	12

N.B At least 2 compositions, 2 reports, 2 proposals & at least 4 comprehensions either from Mason or from other sources must be done during the year.

UT Question Paper Pattern—Report Writing- 20 marks, Transformations-5marks, Prepositions or Verbs-5marks.

ENGLISH LITERATURE

BOOKS: The Tempest –Oxford University Press

REVERIE-A Collection of ISC Poems – Evergreen

ECHOES-A Collection of ISC Short Stories- Evergreen

FIRST TERM

Month	T o p i c	Period
April / May 28	The Tempest—Act 4, Sc1	10
	Poe: The Darkling Thrush	5
	S.S.: The Sound Machine	5
	Rev: The Tempest-Act 1	2
	Poe: The Gift of India	2
June 14	The Tempest- Act 5, Sc.1	9
	S.S: To Build a Fire	5
	Rev: Poem: Birches	1
July 22	Poe: The Dolphins	2
	S.S: The Chinese Statue	7
	Rev: Poe: Dover Beach	2
	S.S: Salvatore	2
	The Tempest- Act2	5
Aug/ Sept 32	S.S: A Gorilla in the Guest Room	5
	Poe: Desiderata	4
	Rev: The Tempest- Act 3	4
	Poe: Crossing the Bar	3
	S.S.: The Story of an Hour	2
	Fritz	3
	FIRST ASSESSMENT WILL INCLUDE 'THE TEMPEST', THE COMPLETE PLAY.	

SECOND TERM

Month	T o p i c	Period
Oct 13	Poe: We are the Music Makers	3
	S.S: B. Wordsworth	4
	Rev: The Tempest, Act 4	2
	Poe: Dover Beach	1
	S.S:The Singing Lesson	2
Nov 19	Rev: The Tempest Act 5	4
	S.S: Quality	2
	To Build a Fire	4

Dec 15	Poe: The Spider and the Fly Revision of entire syllabus PRE- BOARDS WILL BE BASED ON THE ENTIRE YEAR'S SYLLABUS.	2
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UT Question Pattern: The Tempest – 10 marks (reference to the context), 1 essay type question from ISC Collections of Poems or Short Stories---20 marks.

HINDI (2ND LANGUAGE)

**BOOKS: KAVYA MANJARI , GADYA SANKALAN, ASHADH KA EK DIN, VYAKARAN MANJUSHA
FIRST TERM**

Month	T o p i c	Chapters	Period
April 12	K. M.- Sakhi	1	3
	G.S -Dasi	6	6
	Gr.	3	3
May 6	G.S.—Sanskriti Kya Hai	9	5
	Gr.		1
June 9	K.M.-Aa Dharti Kitna Deti hai	4	3
	A.K.D.		6
	Gr.		
July 14	K.M.- Uddami Nar	8	4
	G.S. –Kya Nirash Hua Jaye	7	5
	A.K.D.		4
	Gr.		1
Aug & Sept 12+2	K.M. –Badal ko Ghirte Dekha Hai	9	3
	G.S. – Rev.		4
	A.K.D.		4
	Gr.		2

SECOND TERM

Month	T o p i c	Chapters	Period
Sept & Oct 3+8	G.S.- Majburi	10	5
	A.K.D. Revision		3
	Gr-		3

Nov 12	ISC Test Paper Revision		3
Dec 9	Revision		3
			4
			2

BENGALI (2ND LANGUAGE)

BOOKS: ISC KOBITA SANKALAN (CAMBRIDGE EDUCATIONAL PUBLISHERS, KOLKATA), ISC PROBONDHO O GADYA SANKALAN (POWER PUBLISHERS), KONI (KATHA O KAHINI)
FIRST TERM

Month	T o p i c	Chapters	Period
April (10)	Koni	9	3
	Baborer Prarthona	6	5
	Grammar		2
May (6)	Koni	10	3
	Record	5	3
June (9)	Koni	11	2
	Banalata Sen	3	2
July (14)	Koni	12	6
	Lachmonar Maa	13	5
	Grammar	8	2
Aug (13)	Koni	14	4
	Ekti tulsī Gacher Kahini	9	4
	Nun Grammar	10	4
Sept(2)	Comprehension. Essay Writing, Grammar.		

SECOND TERM

Month	T o p i c	Chapters	Period
Sept (6)	Koni (Revision)	1-8	8
Oct (8)	Rasta Karor Noy	8	4
Nov (12)	Na Paharar Pariksha	10	4

Dec (9)	Revision of I.S.C Syllabus		4
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MATHEMATICS**BOOK: ISC UNDERSTANDING MATHEMATICS Class XII****Author: M.L. Aggarwal Arya Publications****FIRST TERM**

Month	T o p i c	Chapters	Period
April 24	Probability (XI+XII)	10	10
	Inverse Trigonometric Function	2	10
	Relation & Function (XI)	2	4
May 2	Relation & Function and Binary Operation (XII)	1	9
June 17	Vectors (Science)	1	9
	Linear Regression (Commerce)	2	9
	Continuity and Differentiability	2	8
July 26	Application of Derivative	7	12
	Integration	8	14
Aug 24	Integration	8	5
	3 Dimensional Geometry Straight Lines (Science)	2	10
	Application of Calculus (Commerce)	1	10
	Revision		9
Sept 6	Revision: Determinant Matrices Indeterminate Forms		6

SECOND TERM

Month	T o p i c	Chapters	Period
Oct 15	Definite Integral	8	15
Nov 23	Differential Equation	9	12
	Application of Integrals (Science)	2	5
	LPP (Commerce)	3	5
	Revision		6
Dec 12	Revision of ISC Syllabus		12

PHYSICS

**BOOKS: NOOTAN PHYSICS-2 BY KUMAR & MITTAL
FIRST TERM**

Month	T o p i c	Chapters	Period
April (16)	Electric Charges and Fields	1	4
	Gauss Theorem	2	4
	Electric Potential and Potential Energy	3	4
	Capacitors and Dielectrics	4	4
May (6)	Electric Resistances and Ohm's Law.	5	4
7 extra class	D.C. Circuit and Measurements	6	5
	Moving charges and Magnetism	7	4
June (9)	Torque on a Current Loop: Moving coil galvanometer	8	3
	Magnetic Field and Earth's Magnetism.	9	3
	Magnetic Classification of Substances.	10	3
July (16)	Electromagnetic induction	11	4
	Alternating Current	12	4
	Electromagnetic waves	13	2
	Spherical Mirror	14	3
	Refraction of Light at a Plane Interface	15	3
Aug (16)	Refraction of Light at Spherical Surfaces.	16	3
	Refraction and dispersion of light through a prism	17	4
	Optical instruments	18	2
	Photo electric effect	23	2
	Matter waves	24	2
	X rays	25	3
Sept (3)	Atom, Origin of spectra:	26	3
	Bohr's Theory of Hydrogen	27	3

Extra Classes (11)	atom		
	Nuclear Structure	28	3
	Radioactivity.	29	2

SECOND TERM

Month	T o p i c	Chapters	Period
Oct (9)	Nuclear Fission & Nuclear Fusion: Sources of energy	30	2
	Wave nature of Light:	19	
	Interference of Light	20	
	Diffraction of Light	21	
	Polarization of Light.	22	7
Nov (10)	Mass- Energy Equivalence:	29	2
	Nuclear Binding Energy.		
	Semiconductor Electronics	31	
	Junction Diodes	32	
	Junction Transistors	33	
	Logic Gates	34	8
	Communication System	35	
Dec (5)	Question - Answers of Board Papers		5

CHEMISTRY

BOOKS: ISC CHEMISTRY for Class XII, (Part-I & Part-II) by K.L. CHUGH (KALYANI PUBLISHERS)

Part-I: FOR COUNCIL EXAMINATIONS

Part-II: NCERT AND ENTRANCE EXAMINATION QUESTIONS

FIRST TERM

Month	T o p i c	Chapters	Period
April (16)	Solid State	1	9
	General Principles and Processes of Isolation of elements	6	3
	Polymers	15	4
May (6)	Haloalkanes and Haloarenes	10	6
June (11)	Solutions	2	6
	p-Block elements	7	2
	Alcohols, Phenols and Ethers	11	3

July (17)	Alcohols, Phenols and Ethers (contd)	11	6
	Electrochemistry	3	6
	Aldehydes, Ketones and Carboxylic acids	12	5
Aug (16)	Aldehydes, Ketones and Carboxylic acids (contd...)	12	5
	Chemical Kinetics	4	7
	Biomolecules	14	4
Sept (2)	Revision	-	2

SECOND TERM

Month	T o p i c	Chapters	Period
Oct (10)	Surface Chemistry	5	6
	d and f – Block Elements	8	4
Nov (15)	Co-ordination compounds	9	7
	Organic Compounds containing nitrogen	13	5
	Chemistry in everyday life	16	3
Dec (7)	Revision	-	7

BIOLOGY**BOOKS: SRIJAN BIOLOGY II****FIRST TERM**

Month	T o p i c	Chapters	Period
April (20)	Reproduction in Organsims	1	4
	Sexual Reproduction in Flowering Plants	2	4
May (8)	Human Reproduction	3	6
June (14)	Reproductive health	4	3
	Organisms & population	13	3
July (22)	Principles of Inheritance & variation	5	5
	Molecular Basis of Inheritance	6	5
	Biotechnology: Principles &		

	processes	11	3
	Biotechnology & its application	12	2
Aug (20)	Human health & diseases	8	4
	Ecosystem	14	4
	Biodiversity & its conservation	15	4
Sept(15)	Revision of 1 st term syllabus		

SECOND TERM

Month	T o p i c	Chapters	Period
Oct (15)	Evolution	7	6
	Strategies for enhancement in food production	9	3
Nov (17)	Microbes in human welfare	10	2
	Environmental issues	16	2

COMPUTER SCIENCE

BOOKS: COMPUTER SCIENCE WITH JAVA BY SUMITA ARORA – DHANPAT RAI & CO.

FIRST TERM

Month	T o p i c	Chapters	Period
April	Boolean Algebra a) Principle of duality b) Laws of Boolean Algebra c) De’Morgan’s Law d) Canonical forms e) Sequential Circuits (Flip Flops)	1	Theory-9 Practical-6
	Review of Programming in Java (Class XI) a) Primitive data types b) Variables c) Expressions d) Associativity & Precedence e) Scope & Visibility f) Looping and Branching g) Advanced I/O	3, 4, 5, 8	
May	Functions & Recursion Command line arguments	6	Theory-6 Practical-4

June	a) K- maps (up to 4 Variables) b) Half – adder/ Full – Adder	1	Theory-9 Practical-6
July	a) Encoder/ Decoder b) Multiplexer c) Universality of NAND/NOR gates d) Matrix using Arrays (Gauss elimination method) e) Functions on strings f) Types of errors Basic idea about compilation	2 7	
Aug	a) Access specifiers b) Class as a Contract: separating implementation from interface; encapsulation; private and public c) Recursion d) Interfaces in Java e) Exception handling f) Simple data structures (stack, queue, deque) g) Recursive data structures (Link List) h) Input/ Output using sequential files (creating, opening, closing, and deleting files)	12 9 11 13 14 15 10	Theory-12 Practical-8
Sept	Revision of First term Syllabus		

SECOND TERM

Month	T o p i c	Chapters	Period
Oct	Quick revision of the 1st term a) Recursive data structures (Binary Trees, BST) b) Sorting (Merge & Quick Sort) and Searching c) File class, File I/O exceptions. d) Concept of Tokens, whitespace, extracting tokens from an Input Stream (String Tokenizer class) and separator.	15	Theory-9 Practical-6

Nov	a) Basic Concepts of inheritance b) Base and derived classes c) Libraries and use of library classes d) Implementation of algorithm to solve problems.	12	Theory-12 Practical-8
Dec	Complexity and Big O notation. Revision	16	Theory-6 Practical-4

ACCOUNTS

BOOKS: DOUBLE ENTRY BOOK-KEEPING BY T. S. GREWAL FIRST TERM

Month	T o p i c	Chapters	Period
April (20)	Partnership fundamentals	2	6
May (9)	PARTNERSHIP: Admission of a partner	3	12
June (14)	Retirement of a partner	5	6
	Death of a partner	6	6
	Dissolution of a partnership	7	8
July (22)	COMPANY ACCOUNTS:	6	6
	Issue, forfeiture and reissue of shares	8	10
Aug (20)	Ratio analysis	12	12
	Financial statement analysis	13	4

SECOND TERM

Month	T o p i c	Chapters	Period
Sept (4)	Revision	1	8
Oct (15)	Cash Flow statement Issue of Debenture	10	6
Nov (22)	Redemption of debenture	11	8
	Company final account	4	4
Dec (11)	Revision with ISC past papers		7

COMMERCE

BOOKS: I.S.C. Commerce, Volume II, by C.B. Gupta.

FIRST TERM

Month	Topic	Ch	Period 6/week
Apr (20)	Business Environment	Relevant contents of textbook & reference	5
	Capital-Fixed and Working	1	6
	Sources of Finance of a Joint	2	9
	Stock Company	3	
May (8)	Financing-Banking	4	3
	Management- Meaning, Nature and Importance	5	5
June (14)	Management-Principles	6	4
	Functions of Management and Co ordination	7	3
	Planning	8	7
July (22)	Planning	8	5
	Organising	9	12
	Staffing	10	5
Aug (20)	Staffing	10	7
	Directing	11	13
Sept (4)	Revision		4

SECOND TERM

Month	Topic	Ch	Period 6/week
Oct (13)	Controlling	Relevant contents of textbook & reference	6/week
	Marketing-Concept		
Nov (19)	Marketing Mix	12	6
	Consumer Protection	13	7
	Revision		
Dec (11)	REVISION with Previous papers of I.S.C. and Model papers	14	10
		15	6
			3

ECONOMICS**BOOK: FRANK ISC ECONOMICS PART II (SETHI & ANDREWS)
FIRST TERM**

Month	Topic	Chapters	Period
April (20)	Demand and Law of Demand	2	5
	Elasticity of Demand	4	5
	Consumer Behaviour	3	9
	Project 1		1
May (8)	Supply & Elasticity of Supply	5	8
June (14)	Market mechanism	6	5
	Laws of Returns	7	7
	Cost & Revenue Analysis	8	2
July (22)	Cost & Revenue Analysis	8	6
	Forms of Market	9	3
	Producer's Equilibrium	10	5
	Determination of Equilibrium price and output under perfect competition	11	5
	Money and Banking	13 & 14	3
Aug (20)	Money and Banking	13 & 14	3
	Fiscal Policy	16	5
	Govt. Budget	17	5
	BOP & Exch. Rate	15	7
Sept (15)	Revision		15

SECOND TERM

Month	Topic	Chapters	Period
Oct (13)	Theory of Income & Employment	12	12
	Project II		1
Nov (19)	National income	18,19 & 20	19
Dec (15)	Revision		

