

ST. MARY'S SENIOR SECONDARY SCHOOL, RUDRAPUR

CONSOLIDATE SYLLABUS STD. XII A (2024-25)

ENGLISH CORE (301)

MONTH	UNIT NAME
April	The Last Lesson Third Level The Tiger King Notice Writing Job Application
May	My Mother at Sixty Six Article Writing Lost Spring Letter to Editor
	QUATERLY EXAM
July	Deep Water Rattrap Indigo Journey to the end of the earth Report Writing
August	Interview The Enemy Invitation and Reply to Invitation AThing of Beauty
September	A Roadside stand Poets and Pancakes
	HALF YEARLY EXAMINATION
October	On the Face of it Going Places Memories of childhood Aunt Jennifer's Tigers
November	Revision I PRE-BOARD

PHYSICS (042)

MONTHS	UNITS	
MARCH	Unit I:Electrostatics	1
	Chapter–1: Electric Charges and Fields	6
	Electric Charges; Conservation of charge, Coulomb's law-force between two	
	point charges, forces between multiple charges; superposition principle and	
	continuous charge distribution. Electric field, electric field due to a point charge,	
	dipole in uniform electric fieldElectric flux, statement of Gauss's theorem and its	
	applications to find field due to infinitely long straight wire, uniformly charged	1
	infinite plane sheet and uniformly charged thin spherical shell (field inside and	ŝ
	outside).	
	Chapter–2: Electrostatic Potential and Capacitance	
APRIL	Electric potential, potential difference, electric potential due to a point	5
	charge, a dipole and system of charges; equipotential surfaces, electrical	ľ
	potential energy of a system of two point charges and of electric dipole in an	
	electrostatic field. Conductors and insulators, free charges and bound	
	charges inside a conductor. Dielectrics and electric Polarization, capacitors	
	and capacitance, combination of capacitors in series and in parallel,	1.0
	capacitance of a parallel plate capacitor with and without dielectric medium	
	between the plates, energy stored in a capacitor(no derivation, formula only).	
	Unit II: Current Electricity	
	Chanter-3: Current Electricity	
	Electric current, flow of electric charges in a metallic conductor, drift velocity.	1
	mobility and their relation with electric current; Ohm's law, electrical resistance,	
	V-I characteristics (linear and non- linear), electrical energy and power, electrical	5
	resistivity and conductivity, temperature dependence of resistance, internal	
	series and parallel Kirchhoff's rule, wheat stone bridge	ľ
ΜΔΥ		5
	OUARTERLY EXAMINATION	
	Unit III: Magnetic Effects of Current and Magnetism	
	Chapter-4	
	Chapter-5: Magnetism and Matter;	1
	Bar magnet as an equivalent solenoid ,magnetic field intensity due to a	
	magnetic dipole (bar magnet) along its axis and perpendicular to its axis,	R
	magnetic field lines: Magnetic properties of materials – Para, dia and ferro	5
	magnetic substances with examples, Magnetization of materials, effect of	
	temperature on magnetic properties.	
	Unit IV: Electromagnetic Induction and Alternating	
	Currents	
ШТА	State of the second s	
	Chapter-6: Electromagnetic Induction; Faraday'slaws, induced EMF	
	and current; Lenz's Law, Eddy currents. Self and mutualinduction.	
	Chapter 7. Alternating Current Deck and Difference of the	
	current/voltage: reactance and impedance I CR series circuit resonance	
	power in AC circuits, power factor, wattles current.AC generatorand	
	transformer.	

18 M 18	
	Unit V: Electromagnetic waves
S. Filelater	Chapter-8
AUGUST	Basic idea of displacement current, Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only).Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma raye) including elementary facts about their uses
	Unit VI: Ontice
	Chapter & Dev Ontion and Ontion Instrumental Deficition of light
	spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lens maker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism. Optical instruments: Microscopes and astronomical telescopes (reflecting and
ALC: NO	refracting) and their magnifying powers.
	HALF YEARLY EXAMINATION
	Chapter-10: Wave Optics : Wave front and Huygens's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygens's principle.
SEPTEMBER	Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single
and the second second	Unit VII: Dual Nature of Dediation and Matter
a fire a	Chapter 11
ALC: NO	Cliapter-11 Dual nature of radiation Photoelectric effect. Hertz and Lenard's observations:
	Einstein's photoelectric equation-particle nature of light. Matter waves-wave nature of particles, de-Broglie relation,
	Unit VIII: Atoms and Nuclei
1919	Chapter–12: Atoms
1.1.1	Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.
OCTOBER	Chapter–13: Nuclei
12.20	energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.
STO GWAL	Unit IX: Electronic devices
200	Chapter-14: Semiconductor Electronics: Materials, Devices and
	Simple Circuits:
	Energy bands in conductors, semiconductors and insulators (qualitative
1. 1.	ideas only) Intrinsic and extrinsic semiconductors- p and n type, p-n junction
	application of junction diode -diode as a rectifier
NOVEMBER	PRE-BOARD I
DECEMBER	BOARD PRACTICAL WORK
Store and	REVISION FOR BOARD EXAMS
JANUARY	PRE-BOARD II

CHEMISTRY

Month	Unit Name	Peri Marks of uni	iods t
March April	 Solution Electrochemistry Chemical kinetics 	15 18 15	7 9 7
May	Quarterly Exam	a station	
Мау	 D and F block elements Revision of all the above chapters 	18	7
July	Co-ordination compounds	18	7
	 PART-2 Haloalkanes and haloarenes Alcohol,phenol and ether 	15 14	
August	 Aldehyde, ketona and carboxylic acid Amines-N containing compounds Biomolecules REVISION OF HALF YEARLY EXAMINATION 	15 14 18	8 6 7
September	Half Yearly Exams		
October	Pre Board 1 st	No. 1 and a start of the	S all the
November	 Practical work-revision volumetric analysis Salt analysis Revision of content based Experiments File work 	35	26 4=30
December	 Revision: For Board Exams File and Project Work 		
January	Pre Board 2 nd		
February	Revision + File work + Project work + Lab Visit	+ Board Practical	

Computer Science (Python 083)

Month	Unit Name	Per Theory Pi	Periods Theory Practical	
March	Database Management System	50	30	
April	Functions in Python	1 1. Te		
	MySQL and Interface with Python		1 and	
May	Quarterly Exam	3.7.	6.3.6	
May	Revision Tour XI- Part1	40	30	
	Revision Tour XI- Part2		1.3.3	
July	Computational Thinking and Programming – 2	50	45	
	Exception Handling	S. States		
	Ohject Oriented Programming in PYTHON	3 3 3 3 3		
	 File Handling in PYTHON 			
August	Text File in PYTHON	50	30	
	Binary File in PYTHON	a shi lin	The state	
	Comma Separated Values in PYTHON		1. 1. 1.	
	Data Structure	13 44 WE 213	Swa and	
September	Half Yearly Exams	and the last		
October	Pre Board 1 st	1000 - 100 -	AT STATE	
November	Computer Networks	35	20	
	Cyber Safety, Law and Ethics-2	1.5-11		
December	Revision: For Board Exams		ALC: NO	
at the set	File and Project Work			
January	Pre Board 2 nd			
February	Revision + File work + Project work + Lab Visit + Board Practical		SPY 2	

PHYSICAL EDUCATION

ALC DADE	PHYSICAL EDUCATION CURRICULUM (2024-2025)
during the	CLASS XII

MARCH	Unit I Management of sporting events.			
and the second	Meaning & function Of Sports events management			
Man Sterry	(planning, organizing, staffing, directing and			
	controlling)			
1-2 (W2-5				
	• Various Committees & its Responsibilities (pre; during &			
and the	post)			
1111	Tournament – Knock-Out, League Or Round Robin & Combination			
	Procedure To Draw Fixtures - Knock-Out (Rve & Sooding)			
1 the second	 Procedure to Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic) 			
Contra la	a Ledgue (Stalitase & Cyclic)			
	Initialitural & Extrainural – Meaning, Objectives & its Significance			
A LAND S	Community sports, nurnose and benefits			
	• Community sports- purpose and benefits.			
	Unit II Children & Warren in Sports			
AFNIL	Common Postural Deformities Knock Knee: Bow			
	Legs: Elat Foot: Round Shoulders: Lordosis			
A States	Kyphosis and Scoliosis and their corrective			
Contraction of	Kypnosis, and Scollosis and their corrective measures			
	Special consideration (Menarche & Menstrual Dysfunction)			
Carlo and	Female Athletes Triad (Osteoporosis, Amenorrhea, Eating			
C. U.S. Salah	Disorders)			
Converse.				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Unit III Yoga as Preventive measure for Lifestyle Disease			
and the state	Obesity: Procedure, Benefits & Contraindications for			
	Tadasana, Katichakrasana, Pavanmuktasana,			
1111	Matsayasana, Halasana, Pachimottansana, Ardha –			
	Matsyendrasana, Dhanurasana, Ushtrasana,			
	Suryabedhan pranayama.			
	Diabetes: Procedure, Benefits & Contraindications for			
Sarry K.	Katichakrasana, Pavanmuktasana,Bhujangasana,			
and a	Shalabhasana, Dhanurasana, Supta-vajarasana,			
Mar Mar S.	Paschimottanasana, Ardna-Mastendrasana,			
	Kanalahhati			
A Standard	Asthma: Procedure Benefits & Contraindications for			
18 201	Tadasana Urdhwahastottansana UttanMandukasana			
	Bhujangasana, Dhanurasana, Ushtrasana, Vakrasana			
	Kapalbhati, Gomukhasana Matsyaasana, Anuloma-			
Contraction of the	Viloma.			

E SAM R	Hypertension: Procedure, Benefits &
	Contraindications for Tadasana, Katichakransan,
the strates	Uttanpadasana, Ardha Halasana, Sarala Matyasana,
1.1.1.1.1.1	Gomukhasana, UttanMandukasana, Vakrasana,
	Bhujangasana, Makarasana, Shavasana, Nadi-
	shodhanapranayam, Sitlipranayam.
Sar A	AND DESCRIPTION AND DESCRIPTION AND DESCRIPTION
MAY	QUARTERLY EXAM
Phy Maria	
A FILLING	
ΜΑΥ	Unit IV Physical Education & Sports for CWSN (Children with Special Needs - <i>Divyang</i>)
	Organizations promoting Disability Sports
	(Special Olympics; Paralympics;
A STATISTICS	Deaflympics)
1. 1. 1.	Advantages of Physical Activities for children with special
	needs.
A STATE	Strategies to make Physical Activities assessable for children
C. States	with special needs.
JULY	Unit V Smanta & Nutrition
13 1243	Concept of balance dist and putrition
	Concept of balance diet and nutrition
Constraint St.	Nutritive & Non Nutritive Components of Diet
	• Numitive & Non-Numitive Components of Diet
	这些中国的公司是SPATE 中国的公司是SPATE 中国的公司是
200	Unit VI Test & Measurement in Sports
a find and	• Fitness Test – SAI Khelo India Fitness Test in school:
	• Age group 5-8 yrs/ class 1-3: BMI, Flamingo Balance
COLORAD ST	Test, Plate Tapping Test
C. U.S. Second	• Age group 9-18yrs/ class 4-12: BMI, 50mt
A CARLER AND	Speed test, 600mt Run/Walk, Sit & Reach
	Partial Curl Up, Push Ups forhous, Modified
	Push-Ups for girls)
100 - 100	Computing Basal Metabolic Bate (BMR)
a little	Bikli & Jones Senior Citizen Eitness Test
	KIKI & JOIES - Senior Citizen Filless Test L Chair Stand Tast for lower body strength
in pros	I. Chan Stand Test for upper body strength
	II. Aftin Curi Test for upper body strength III. Chair Sit & Deach Test for lower body flowibility
and the	III. Chair Sit & Keach Test for iower body flexibility
1 × 11 1 131	V Fight Foot Up & Co Test for agility
	VI Six Minute Walk Test for Aerobic Endurance
	VI. SIX WINDLE WAIK LEST IOI ACTOOL ENGLIANCE

AUGUST	「「「「「「」」」、「「「「」」」、「「」」、「」」、「」」、「」」、「」」、
	Unit VI Test & Measurement in Sports
State State	Measurement of Cardio Vascular
ALC: NO	Fitness – Harvard Step
TO GALLER	Test/Rockport Test - Computation
	of Fitness Index:
	Duration of the Exercise in
AT A STAT	Seconds x 100 X 5.5 x Pulse count
Star Barr	of 1-1.5 Min after Exercise
	 Johnson- Metheny test of motor
THU TUA	educability (Front roll, back roll,
The second	jumping half turn, jumping full
Constant of	turn)
Contraction of the	
SEPTEMBER	Half yearly examination
	Unit VII Physiology & Injuries in Sports
S W Story	Physiological factor determining component of
1-1-1-1-1-1	Physical Fitness
OCTOPER	PREBOARD I
OCTOBER	
OCTOBER	Effect of exercise on Cardio Respiratory
to the state	System
n	Effect of exercise on Muscular System
24 3 14	Physiological changes due to ageing
N. Stat	Sports injuries: Classification (Soft Tissue
1-1-10-75	Injuries: (Abrasion, Contusion, Laceration,
CALL AND A	Incision, Sprain & Strain) Bone & Joint
Star BANK	Injuries: (Dislocation, Fractures: Stress
1 247-57-5	Fracture, Green Stick, Communated,
(Calebra)	Transverse Oblique & Impacted) Causes,
MUN ENS	Prevention& treatment
2 3 3 6	First Aid – Aims & Objectives
	Unit VIII Biomechanics & Sports
	Newton's Law of Motion & its application in sports
1	Equilibrium – Dynamic & Static and Centre of
	Gravity and its application in sports
	Friction & Sports
U.S. Santa	Projectile in Sports
14 P 3. 4	

NOVEMBER	Unit IX Psychology & Sports
	 Personality; its definition & types – Trait &
a hur and a star	Types (Sheldon & Jung Classification) & Big
	Five Theory
C Paster	Motivation, its type & techniques
Constant States	Exercise Adherence; Reasons to Exercise,
CLARK STR	Benefits of Exercise
	Strategies for Enhancing Adherence to
CAR STATE	Exercise
	Meaning, Concept & Types of Aggressions in
Children and and	Sports
	 Psychological attributes in sports- self-esteem,
L Paster	mental imagery, self-talk, goal setting.
Contraction of the second	
Art Sale	Unit X Training in Sports
State Store of P	 Strength – Definition, types & methods of
	improving Strength – Isometric, Isotonic &
THE WAR	Isokinetic
	Endurance - Definition, types & methods to
Constant and	develop Endurance – Continuous Training,
Contraction of the	Interval Training & Fartiek Training
	Speed – Definition, types & methods to
	Elevibility Definition types & methods to
SAL SKEW	 Flexibility – Definition, types & methods to improve flexibility
	Coordinative Abilities - Definition & types
all the state	Circuit Training - Introduction & its importance
14 - AN 2	
	REVISION
DECEIVIBER	
JANUARY	PREBOARD II
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72 30 5 5	
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Information Technology (802)

Month	Unit Name	Periods	
	and the state of the state of the state	Theory	Practical
April	Part-A	10	05
200	Unit 1: Communication Skills-IV	CONTRACT.	
	Unit 2: Self-Management Skills-IV	C. C. Starten	
ALC: NOT	Part-B		
Selle 1 a la	Unit-3: Fundamentals of Java Programming	1 62 80	10 Section Res
May	Part-B	3	6
	Unit-3: Fundamentals of Java Programming	126.54	
	Part-A	Qua Part	
	Unit 3: ICT Skills-IV	1021025	A STREET
- Harris	Quarterly Exams		
July	Part-A	10	5
	Unit 4: Entrepreneurial Skills-IV	Distance in	
	Part-B		
	Unit-3: Fundamentals of Java Programming		
Parts Sala	Unit -2: Operating Web Based Applications.	2000	E Star Ske
August	Part-B	11	4
	Unit-1: Database Concepts – RDBMS Tool	and the second	
and the state	Unit-4: Work Integrated Learning IT- DMA.	18-18-3C	A PLAN
September	Half Yearly Examina	tion	
October	Part-B	06	02
	Unit-4: Work Integrated Learning IT-DMA.	a la serie de la s	
	Part-A	2 A STOR	
	Unit 5: Green Skills-IV	and the second	
	PRE-BOARD 1 ST EXA	AMS	
November	Revision Work (Sample papers) + Lab Visit	7	8
December	Revision Work + Lab Visit +Project files	7	8
January	Pre-Board 2nd Exams		
	Revision Work + Lab V	isit	

YOGA(841)

MONTH	UNIT NAME
April	Part-A
	Unit-1:Communication Skill-III
Sector Martin	a-Introduction of communication.
Contraction of the second	b- Active listening.
3.0 and 10	c-Interview skills.
	d-Parts of speech.
and the second second	Part-B
State States	Unit-1: Introduction to yoga and yogic practices-II
	a-Shatkarma meaning,Purpose And their significance In Yoga Sadhana.
	b-Yogasana- Meaning, Principal, and their health benefits.
May	Part-A
	Unit- 2 Self-management Skill-I
	a- Self Management.
	b- Motivation.
	Part-B
1.50 - 2 - 1	Unit-B- Introduction to yoga and yogic practices-II
	a-Introduction to pranayama and Dhyana and their health benefits.
Service .	b- Identify Career opportunities in yoga.
A second	PERIODIC TEST -01
July	Part-A
A CARLAN	Unit- 3: ICT Skills-III
	a-Introduction to spreadsheet application.
Associated and	b- Creating a new worksheet.
Section 2	c- Opening workbook an entire text.

	Part-B					
	Unit-2: Introduction to Yogic texts-II					
1	a-Concept of Ahara (diet) according to yogic text.					
1977 B	b-Significance of Hatha yoga Practices in health promotion.					
A Party and	c-Concept of mental health well-being according to Patanjali					
	Yoga.					
August	Part- B					
	Unit-2: Introduction to Yogic texts-II					
and the second second	a- Yoga practice of Patanjali yoga.					
A. S. Martin	b-Concept of healthy living style in Bhagavad Gita.					
Sarah State	c-Importance of subjective.Experience in daily yoga practice.					
Service A. M.	Part- A					
	Unit- 3: ICT Skills-III					
The second second	a-Resizing fonts and styles.					
A. Contraction	b-Copying and moving.					
State Land	c- Saving a spreadsheet in various formats.					
	PERIODIC TEST -02					
September	HALF YEARLY EXAMS					
October	Part-A					
	Unit- 4: Entrepreneurial Skill-III					
	a-Meaning of Entrepreneurship.					
1947-2016	b-Characteristic of intrapreneurship.					
	c- Entrepreneurship- Art and Science.					
	Part-A					
	Unit- 3: Yoga for health promotion-II					
S. 2	a- Introduction to First Aid and CPR.					
a Portan and	b- Yogi Management of Stress and its consequences.					
And Park	PRE- BOARD 1st					

November	Part-B					
	Unit-3: Yoga for health promotion-II					
S 23 - 27 - 27 - 27 - 27 - 27 - 27 - 27	a-Yogi prevention.Of common disease.					
	Part-A					
and the second second	Unit-4:Entrepreneurial Skill-III					
Sec. State	a-Qualities of an entrepreneur.					
	b- Types of entrepreneurs.					
	c-Roles and functions of an entrepreneur.					
December	Part-A					
Section 1	Unit-5: Green skills					
A Children	a-Introduction to Green jobs.					
	b- Benefits of green jobs?					
1917-196	Part-B					
	Unit-3: Yoga for health promotion-II					
	a- Yoga and personality development.					
January	Practical File/ project work					
	Revision Work/ Practical demo					
	PRE- BOARD 2nd					

XII SYLLABUS OF MATHEMATICS 2024-25

MONTH	воок	CHAPTER TOPICS	ACTIVITY	
	NAME	A WEAR STRATE WEAR STRATE	ALC AND STAT	
	Lab Manual	 Matrices: Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Relations and Function: Types of relations: 	ACTIVITY ON GRAPH OF INVERSE OF FUNCTIONS	
APRIL		reflexive, symmetric, transitive and equivalence relations. One to one and onto functions,		
		InverseTrigonometricFunctions Definition, range, domain, principal value branch. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions		
		Determinants Determinant o a square matrix (up to 3 x 3 matrices), properties of determinants, minors, co-factors and applications of determinants in finding the area of a triangle.		
10.00	NCERT	Continuity and Differentiability	TANK SHARES	
MAY		Continuity and differentiability, derivative of composite functions, chain rule, derivatives of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions	MATH ACTIVITY ON CONTINUITY THROUGH DESMOS	
		QUATERLY EXAMINATION SUMMER VACCATIONS		
JULY	3. NCERT	Applications of Derivatives: Applications of derivatives: rate of change of bodies, increasing/decreasing functions, tangents and normals, use of derivatives in approximation, maxima and minima	REAL LIFE PROBLEMS AND THEIR PROOF THROUGH PAPER CUTTING	

12968	4. NCERT	Applications of Derivatives	
JULY		First derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations)	GEOMETRICALLY MEANING OF LMVT
16.0		And the second second second second second	
	5.	Integrals : Integration as inverse process of differentiation.Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and methods have done them Fundemental Theorem	GRAPHS
AUGUS	т	of Calculus (without proof). Basic properties of definite integrals and evaluation of definite integrals	
		ApplicationsoftheIntegralsApplications in finding the area under simple curves,especiallylines,circles/parabolas/ellipses(instandard form only),Area between any of the twoabovesaidcurves(theregionshouldbeclearly identifiable)	
	6.	Differential Equations Definition, order and degree, general and particular solutions of a differential equations. Formation of differential equation whose general solution is given.	GRAPHS OF DIFFERENT CURVES THROUGH IT
SEPTEMB	ER	Solution of differential equations by method of separation	
		equations of first order and first degree. Solutions of linear differential equation of the type: $dy/dx + py = q$, where p and q are functions of x or constants. $dx/dy + px$ = q, where p and q are functions of y or constants	
-	7.	HALF YEARLY EXAMINATION	
Остов	ER	of a vector. Direction cosines and direction vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point,	LAB ACTIVITIY FOR FINDING
		Three - dimensional Geometry Direction cosines and direction ratios of a line joining two points.Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance	S.D BETWEEN TWO SKEW LINES

	-				
12.2% (L.) M		between	two	lines.	
at all a state	1.0	Linear	ProgrammingIntroduction,	related	
12 M 1/2		terminolog	gy such as constraints, objective		
ALE DISTRICT	1	optimizati	on, different types of linear prog	gramming	
1222		(L.P.) pro	blems, mathematical formulation	on of L.P.	
ST. Strange	1999	problems,	graphical method of solution for	problems	
32.701.1		in two va	ariables, feasible and infeasible		
2.7% T	121	(bounded	and unbounded), feasible and		
St. Martin	0.0	solutions,	optimal feasible solutions (up to		
12 12		trivialcons	straints		
1622-306	12.20	Probabili	tyConditional probability, mult	tiplication	
	1.5	theorem	on probability. independent		
in a state of the	123	total proba	ability, Baye's theorem, Randon		
	1.1.1	and	its probability di	stribution	
6- 91- A					
ALL THE SHO	1.000				
		PRE –B	BOARD 1		
NOVEMBER	8.	REVISIO	ON OF PREVIOS CHAPTERS		
	- Sta	SAMPLE	PAPER		
a substan					
DECEMBER	· And				
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