



G D GOENKA PUBLIC SCHOOL, JAMMU

(Governed by Om Prakash Bansal Charitable Trust Regd.)

MONTHLY/YEARLY SYLLABUS BREAKUP

CT-1	APRIL	Poem: My Mother at Sixty- six Chapters: The Tiger King The Last Lesson Lost Spring A Notice Writing Reading Comprehension
	MAY	Poem: An Elementary School Class-room in a Slum Chapters: The Enemy Poster Drafting Job Application Revision for CT-I
	JULY	Poem: Keeping Quiet Note-Making Invitation Drafting(Formal & Informal) Formal Letter Writing Note-making (Contd.)
	AUGUST	Poem: A Thing of Beauty Chapters: Deep Water Should Wizard Hit Mommy Advertisement Drafting(Classified & Display) Article Writing Debate Writing Poem: A Thing of Beauty
MID-TERM EXAMS	SEPTEMBER	Poems:1,2,3&4 Flamingo:Chapters:1,2&3 Vistas:1,2 & 3 Writing Skills: As mentioned from April to August Reading Compression Note-making

CT-2	OCTOBER	Poem: Aunt Jennifer's Tigers' Chapter: The Rattrap On the Face of It Indigo Speech Writing Note-making
	NOVEMBER	Chapters: Going Places Memories of Childhood Evans tries an O-level Job-Application with bio-data/C.V Business Letters Report Writing
	DECEMBER	Revision of the entire syllabus for PRE-BOARD-I EXAMINATION
	JANUARY	PRE-BOARD II EXAMINATIONS
	FEBRUARY	
FINAL EXAMS	MARCH	



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SYLLABUS 2018-19 (CLASS XII)

MATHEMATICS

CT1 Relations and Functions Matrices Determinants	CT2 Definite Integration Area under curves Differential Equations
MID TERM Relations and Functions Inverse Trigonometry Functions Matrices Determinants Continuity and Differentiability Application of Differentiation Indefinite Integration	PRE BOARD I and PRE BOARD II Book 1 and Book 2 (Full Syllabus)



MONTHLY SYLLABUS BREAKUP

CLASS: 12th

SUBJECT: CHEMISTRY

		Units	Practical
CT-1	APRIL	Unit I: Solid State Unit II: Solutions	<i>Determination of concentration? Molarity of $KMnO_4$ solution by titrating it against a standard solution of:</i> (i). Oxalic acid, (ii). Ferrous Ammonium Sulphate
	MAY	Unit III: Electrochemistry Unit IV: Chemical Kinetics	(a). Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate & Hydrochloric acid. (b). Study of reaction rates of any one of the following: (i). Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentration of Iodide ions. (ii). Reaction between Potassium Iodate, (KIO_3) & Sodium Sulphite: (Na_2SO_3) using starch solution as indicator (clock reaction).
	JULY	Unit V: Surface Chemistry Unit VI: General Principles and Processes of Isolation of Elements	Preparation of one lyophilic and one lyophobic sol Lyophilic sol - starch, gum and egg albumin (i). Separation of pigments from extracts of leaves and flowers by paper chromatography and

			determination of Rf values.
	AUGUST	Unit VII: p - Block Elements Unit VIII: d and f Block Elements Unit IX: Coordination Compounds	<i>Preparation of Inorganic Compounds</i> (i). Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum. (i). Enthalpy of dissolution of Copper Sulphate or Potassium Nitrate.
MIDTERM EXAMS	SEPTEMBER	Unit X : Haloalkanes and Haloarenes Unit XI: Alcohols, Phenols and Ethers	<i>Qualitative analysis</i> Determination of one cation and one anion in a given salt. Cation:- Pb^{2+} , Cu^{2+} , As^{3+} , Al^{3+} , Fe^{3+} , Mn^{2+} , Zn^{2+} , Co^{2+} , Ni^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ Anions:- CO_3^{2-} , S^{2-} , SO_3^{2-} , SO_4^{2-} , NO_2^- , NO_3^- , Cl^- , Br^- , I^- , PO_4^{3-} , $\text{C}_2\text{O}_4^{2-}$, CH_3COO^-
	OCTOBER	Unit XII: Aldehydes, Ketones and Carboxylic Acids Unit XIII: Organic compounds containing Nitrogen	<i>Tests for the functional groups present in organic compounds:</i> Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.

	NOVEMBER	Unit XIV: Biomolecules Unit XV: Polymers Unit XVI: Chemistry in Everyday life	<i>Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given food stuffs.</i>
	DECEMBER	Revision and Pre- Board I and model practice examination	
	JANUARY	Revision and Pre- Board II and model practice examination	
	FEBRUARY	Revision and external practical examination	
FINAL EXAMS	March	Board examination	



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MONTHLY-WISE SYLLABUS BREAKUP (2018-19)

CLASS: 12th

SUBJECT: PHYSICS

MONTHS	UNITS	PRACTICALS
APRIL	UnitI: ELECTROSTATICS	NO PRACTICAL SESSION
MAY	Unit II: CURRET ELECTRICITY UnitIII(A): MAGNETIC EFFECTS OF CURRENT	<u>SECTION - A</u> 1: To determine resistance per cm of a given wire by plotting a graph for potential difference versus current. 2: To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.
JULY	UnitIII(B): MAGNETIC EFFECTS OF CURRENT	3: To verify the laws of combination (series) of resistances using a metre bridge. 4: To verify the Laws of combination (parallel) of resistances using a metre bridge. 5: To compare the EMF of two given primary cells using potentiometer. 6: To determine the internal resistance of given primary cell using potentiometer.

	AUGUST	UnitVI: ELECTROMAGNETISM UnitV: ELECTROMAGNETIC WAVES	7: To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. 8: To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 9: To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.
	SEPTEMBER	Unit VI (A): RAY-OPTICS Unit VI (B): WAVE OPTICS	<u>SECTION - B</u> 1. To find the value of v for different values of u in case of a concave mirror and to find the focal length. 2. To find the focal Length of a convex mirror, using a convex lens. 3. To find the focal Length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$. 4. To find the focal Length of a concave lens, using a convex lens.

OCTOBER	Unit VII: DUAL NATURE OF MATTER RADIATION Unit VIII: ATOM AND NUCLEI	5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find refractive index of a liquid by using convex Lens and plane mirror.
NOVEMBER	UnitXI: SEMICONDUCTORS UnitX: CUMMNICATION	8. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 9. To draw the characteristic curve of a Zener diode and to determine its reverse break down voltage. 10. To study the characteristic of a common - emitter <i>npn</i> or <i>pnp</i> transistor and to find out the values of current and voltage gains.
DECEMBER- JANUARY	REVISION AND PRE- BOARD I AND MODEL PRACTICE EXAMINATION	



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CLASS: XII

SUBJECT: PHYSICAL EDUCATION

CT-1	APRIL	Unit I Planning in Sports
	MAY	Unit II Sports & Nutrition HOLIDAY HOME WORK: PREPARE PRACTICAL FILE.
	JULY	Unit III Yoga & Lifestyle
	AUGUST	Unit IV Physical Education & Sports for CWSN (Children With Special Needs – Divyang) Unit V Children & Sports Unit VI Women & Sports
	SEPTEMBER	Unit VII Test & Measurement in Sports -(REVISION FOR EXAMINATION) -PRACTICALS
MID-TERM EXAMS	OCTOBER	Unit VIII Physiology & Sports Unit IX Sports Medicine Unit IX Kinesiology, Biomechanics & sports
	NOVEMBER	Unit XI Psychology & Sports Unit XII Training in Sports
	DECEMBER	(REVISION FOR EXAMINATION) PRACTICE FOR BOARD PRACTICAL'S
CT-2	JANUARY	(REVISION FOR EXAMINATION) PRACTICE FOR BOARD PRACTICAL'S
	FEBRUARY	(REVISION FOR EXAMINATION) PRACTICE FOR BOARD PRACTICAL'S
	MARCH	FINAL EXAMINATION BEGINS
PRE-BOARDS		



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MONTHLY/YEARLY SYLLABUS BREAKUP

CLASS: XII B

SUBJECT: BIOLOGY

CT-1	APRIL	1. Reproduction in Organisms 2. Sexual Reproduction in Flowering Plants 3. Human Reproduction
	MAY	1. Reproductive Health 2. Molecular basis of inheritance 3. Principles of Inheritance and Variations
ACTIVITY BASED ASSESSMENT I	JULY	1. Evolution 2. Biotechnology: Principles and processes 3. Biotechnology and its applications
	AUGUST	1. Organisms and Populations 2. Ecosystem 3. Biodiversity and Conservation 4. Environmental Issues
MID-TERM EXAMS	SEPTEMBER	Revision
CT-2	OCTOBER	1. Microbes in human welfare 2. Strategies for enhancement in food production 3. Human health and Diseases
	NOVEMBER	Revision
	DECEMBER	Pre-Boards
	JANUARY- MARCH	FINAL EXAMS



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MONTHLY/YEARLY SYLLABUS BREAKUP

CLASS: XII

SUBJECT: IP

CT-1	APRIL	Ch1: Computer Networks Ch 11: HTML I
	MAY	Ch9: Web Development Application Ch 10: HTML II Ch 8: Data Base connectivity
ACTIVITY BASED ASSESSMENT I	JULY	Ch 13. MYSQL Revision Tour Ch14: Database Transactions
	AUGUST	Ch15: More on SQL Ch 16: Table and Integrity
MID-TERM EXAMS	SEPTEMBER	Ch 1 , Ch8 , Ch 9, Ch 10 , Ch 11 , Ch 13, Ch 14 , Ch 15 , Ch 16 Ch3: GUI Programming I
	OCTOBER	Ch4: GUI Programming II CH 5: GUI Programming III
	NOVEMBER	Ch 6: More about classes and Libraries Ch 7 : Concept of Inheritance Ch2: Open office

CT-2	DECEMBER	Ch 12 : XML Revision
	JANUARY	Revision
	FEBRUARY	Revision
FINAL EXAMS	MARCH	