DOON PUBLIC SCHOOL-LADWA
SYLLABUS FOR THE SESSION 2019-20
CLASS-11th

ENGLISH

Books Name: 1. Hornbill(Poetry) Book-2 Snapshots

APRIL	May	JULY
Hornbill(Prose) Chapter-1 The portrait of a lady Hornbill(Poetry) Poem-1 A photograph Snapshots Chapter-1 The summer of the beautiful white horse Writing: Topic-1 Short composition-Notices, posters and advertisements	Hornbill(Prose) Chapter-2 We're not afraid to die…..If we can all be together Hornbill(Poetry) Poem-2 The Laburnum top Grammar: Topic-1 Tenses Writing: Topic-2 Long writing	Hornbill(Prose) Chapter-3 Discovering TUT: The saga continues Hornbill(Poetry) Poem-3 The voice of the rain Snapshots Chapter-2 The address Grammar: Topioc-2 Determiners Reading comprehensive: I Factual Passage II Discursive passages
AUGUST	**SEPTEMBER**	**OCTOBER**
Hornbill(Prose) Chapter-4 Landscape of the soul Hornbill(Poetry) Poem-4 Childhood Snapshots Chapter-3 Ranga's marriage Topic-3 Clauses Writing skills: Very long compositions I Article II Speech III Report IV Narrative Reading comprehensive Note-making and summarizing	Hornbill(Prose) Chapter-5 The Ailing Planet: The green movement's role Hornbill(Poetry) Poem-5 Father to son Snapshots Chapter-4 Albert Einstein at school **HALF YEARLY EXAMS**	Hornbill(Prose) Chapter-6 The browning version Snapshots Chapter-5 Mother's day Chapter-6 The Ghat of the only world Grammar: Topic-4 Modals
NOVEMBER	**DECEMBER**	**JANUARY/FEBRUARY**
Hornbill(Prose) Chapter-7 The adventure Snapshots Chapter-7 Birth Grammar: Topic-5 Change of voice	Chapter-8 Silk road Snapshots Chapter-8 The tale of Melon city Grammar: Topic-6 Sentence Transformation Topic-7 Sentence Re-ordering Topic-8 Error correction	Revision of annual Exams **MARCH** **ANNUAL EXAMS**

HINDI

Books Name: 1 आरोह भाग-1 and वितान

<table>
<tr><th>APRIL</th><th>May</th><th>JULY</th></tr>
<tr><td>आरोह भाग-1
नमक का दरोगा।
हम तौ एक,एक करि जाना।
मिंया नसीरुद्दीन।</td><td>अप्पू के साथ ढाई साल।
संतो देखो जग बौराना।
मेरे तो गिरिधर गोपाल,
दूसरो ना कोई, फीचर।</td><td>विदाई सम्भाषण।
पग घुंघरू बाँधि मीरा नाची।
पथिक, पत्र।
वितान---राजस्थान की रजत बूंदे।</td></tr>
<tr><th>AUGUST</th><th>OCTOBER</th><th>NOVEMBER</th></tr>
<tr><td>गलता लोहा।
वे आँखें।
घर की याद।
वितान--भारतीय गायिकाओं में बेजोड़।</td><td rowspan="3">जामुन का पेड़।
ग़ज़ल, हे भूख मत मचल।
वितान--राजस्थान की रजत बूंदे।</td><td rowspan="3">भारत माता।
हे मेरे जूही के फूल जैसे ईश्वर।
सबसे खतरनाक।
वितान--ओलो-आधाआधारि।</td></tr>
<tr><th>SEPTEMBER</th></tr>
<tr><td>स्पीति में बारिश।
घर की याद
चंपा काले-काले .....
रजनी,आलेख।
Half Yearly Exams</td></tr>
<tr><th>DECEMBER</th><th>JANUARY</th><th>FEBRUARY</th></tr>
<tr><td>आत्मा का ताप।
आओ मिलकर बचाये।
व्याकरण --अभिव्यक्ति माध्यम।</td><td rowspan="3">Revision</td><td>Revision</td></tr>
<tr><td></td><td>MARCH</td></tr>
<tr><td></td><td>ANNUAL EXAMS</td></tr>
</table>

MATH

Book name: Elements of Mathematics

APRIL	May	JULY
Chapter-1 Sets Chapter-2 Relations and Functions	Chapter-3 Trigonometry Functions Chapter-4 Principles of Mathematics Induction	Chapter-5 Complex Numbers and Quadratic Equations Chapter-6 Linear Inequations
AUGUST	**OCTOBER**	**NOVEMBER**
Chapter-7 Permutations and Combinations Chapter-8 Binomial Theorems	Chapter-9 Arithmetic Progressions Chapter-10 Straight Lines	Chapter-11Conic sections Chapter-12 Three Dimensions Chapter-13 Limits and Derivatives
SEPTEMBER		
REVISION AND HALF YEARLY EXAMS		
DECEMBER	**JANUARY**	**FEBRUARY**
Chapter-14 Statistics Chapter-15 Probability	**REVISION**	**REVISION** **MARCH** **ANNUAL EXAMS**

HISTORY

Book Name: Themes in world History

APRIL	May	JULY
Ch-1 From the beginning of time Ch-2 Writing and city llife	Ch-3 An Empire across three continents	Ch-4 The central Islamic lands
AUGUST	**SEPTEMBER**	**OCTOBER**
Ch-5 Nomadic Empires	Ch-6 The three orders	Ch-7 Changing cultural traditions Ch-8 Confrontation of cultures
NOVEMBER	**DECEMBER**	**JANUARY/ FEBRUARY**
Ch-9 The Industrial revolution Ch-10 Displacing indigenous people	Ch-11 Paths to modernization	**Revision** **MARCH** **ANNUAL EXAMS**

POLITICAL SCIENCE

Book Name: 1.

APRIL	May	JULY
Ch-1 Constitution why 7 how and Philosophy of the constitution Ch-2 Rights in the Constitution	Ch-3 Election and representation Ch-4 The Executive Ch-5 The Legislature	Ch-6 The Judiciary Ch-7 Federalism Ch08 Local Government
AUGUST	**OCTOBER**	**NOVEMBER**
Ch-9 Constitution as a living document Ch-10 Political theory Ch-11 Freedom	Ch-12 Equality Ch-13 Social justice Ch-14 Rights	Ch-15 Citizenship Ch-16 Nationalism
DECEMBER	**JANUARY/ FEBRUARY**	**MARCH**
Ch-17 Secularism Ch-18 Peace	**Ch-19 Development/ Revision**	**ANNUAL EXAMS**

BIOLOGY

APRIL	May	JULY	AUGUST	SEPTEMBER
Chapter-1 The Living World Chapter-2 Biological Classification Chapter-3 Plant Kingdom Chapter-4 Animal Kingdom	Chapter-5 Morphology of flowering plants Chapter-6 Anatomy of Flowering Plants Chapter-7 Structural Organization in Animals	Chapter-8 The Unit of Life Cell Chapter-9 Biomolecules Chapter-10 Cell Cycle and cell Division	Chapter-11 Transport in Plants Chapter-12 Mineral Nutrition	Chapter-13 Photosynthesis in Higher Plants Chapter-14 Respiration in Plants Chapter-15 Plant Growth and Development
OCTOBER	**NOVEMBER**	**DECEMBER**	**JANUARY/ FEBRUARY**	**MARCH**
Chapter-16 Digestion and Absorption Chapter-17 Breathing and Exchange of gases Chapter-18 Body fluids and Circulation	Chapter-19 Locomotion and Movements Chapter-20 Neural Control and Coordination	Chapter-21 Coordination in Plants and Animals	**REVISION**	**ANNUAL EXAMS**

BUSINESS STUDY

APRIL	May	JULY	AUGUST	SEPTEMBER
Chapter-1 Business: An Introduction Chapter-2 Classification of Business Activities Chapter-3 Business Risk: Nature and Causes	Chapter-4 Forms of Business Organization: Sole Proprietorship Chapter-5 Joint Hindu Family Business Chapter-6 Partnership Organization Chapter-7 Cooperative Societies	Chapter-8 Company Organization Chapter-9 Formation of a Company: Various Stages Chapter-10 Choice of Forms of Business Organization	Chapter-11 Private Sector and Public Sector Chapter-12 Global Enterprises/Multinational Companies Chapter-17 E-Business and Outsourcing of Service	Chapter-18 Social responsibility of Business and Business Ethics Chapter-20 Small Business: An Introduction
OCTOBER	**NOVEMBER**	**DECEMBER**	**JANUARY/ FEBRUARY**	**MARCH**
Chapter-21 Internal trade: Meaning and Types Chapter-22 Wholesale Trade: Meaning and services Chapter-23 Retail Trade: Meani8ng and Types Chapter-24 International Trade	Chapter-25 Import Trade: Procedure and Documents Chapter-26 Export Trade: Procedure and Documents Chapter-27 World trade Organization: Meaning and Role Chapter-19 Source of Business Finance	Chapter-13 Busine3ss services: Banking Chapter-14 Insurance: An Introduction Chapter-15 Life, Fire and Marine Insure Chapter-16 Postal and Telecom services	**REVISION**	**ANNUAL EXAMS**

PHYSICAL EDUCATION

MONTH	Activity	MONTH	Activity
April	Chapter-1 Changing trends and carriers in Physical Education	**October**	Chapter-6 Physical activity and leadership training Chapter-7 Test, measurement and evaluation
May	Chapter-2 Olympic movements	**November**	Chapter-8 Fundamental of anatomy and physiology Chapter-9 Kinesiology, biomechanics and sports in sports
July	Chapter-3 Physical fitness, wellness and life styles	**December**	Chapter-10 Physiology and sports Chapter-11 Training in sports
August	Chapter-4 Physical education and sports for CWSN Chapter-5 Yoga	**JANUARY/ FEBRUARY /MARCH**	REVISION/ANNUAL EXAM

ECONOMICS

APRIL	May	JULY
Microeconomics Chapter-1 Economics and economy Chapter-2 Central problems of an economy Chapter-3 Consumer's equilibrium-Utility analysis	Statistics for economics Chapter-1 Concept of economics and significance of statistics in economics Chapter-2 Collection of data Chapter-3 Census and sample method of collection of data	Microeconomics Chapter-4 Consumer's equilibrium-Indifference curve Analysis Chapter-5 Theory of demand Chapter-6 Price elasticity of demand Statistics for economics Chapter-9 Measures of central tendency-Arithmetic mean
AUGUST	**SEPTEMBER**	**OCTOBER**
Statistics for economics Chapter-10 Measures of central tendency-Median and mode Chapter-11 Measures of dispersion Microeconomics Chapter-7 Production functions and returns to a factor Chapter-8 Concepts of costs	Statistics for economics Chapter-12 Correlation Chapter-13 Index number	Microeconomics Chapter-9 Concepts of revenue Chapter-10 Producer's equilibrium Chapter-11 Theory of supply Chapter-12 Forms of market
NOVEMBER	**DECEMBER**	**JANUARY/ FEBRUARY/ MARCH**
Statistics for economics Chapter-4 Organisation of data Chapter-5 Presentation of data-textual and tabular presentation Chapter-6 Diagrammatic presentation of data: Bar diagrams and Pie diagrams Chapter-7 Frequency diagrams: Histogram polygon and ogine Chapter-8 Arithmetic line: Graphs and time series graphs	Microeconomics Chapter-13 Market equilibrium under perfect competition and effects of shifts in demand and supply	**Revision/Annual Exams**

PHYSICS

APRIL	May	JULY
Unit I: Physical World and Measurement **Chapter–1: Physical World** Physics - scope and excitement; nature of physical laws; Physics, technology and society. **Chapter–2: Units and Measurements** Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its applications.	**Unit II: Kinematics** **Chapter–3: Motion in a Straight Line** Frame of reference, Motion in a straight line: Position-time graph, speed and velocity. Elementary concepts of differentiation and integration for describing motion.Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment)	**Chapter–4: Motion in a Plane** Scalar and vector quantities; Position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity. Unit vector; Resolution of a vector in a plane - rectangular components. Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.
AUGUST	**OCTOBER**	**NOVEMBER**
Unit III: Laws of Motion **Chapter–5: Laws of Motion** Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on banked road). **Unit IV: Work, Energy and Power** **Chapter–6: Work, Engery and Power** Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions. **Unit V: Motion of System of Particles and Rigid Body** **Chapter–7: System of Particles and Rotational Motion** Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, laws of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions.	**Unit VI: Gravitation** **Chapter–8: Gravitation** Keplar's laws of planetary motion.The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites. **Unit VII: Properties of Bulk Matter** **Chapter–9: Mechanical Properties of Solids** Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear modulus of rigidity, Poisson's ratio; elastic energy.	**Chapter–10: Mechanical Properties of Fluids** Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure. Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity.Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise. **Chapter–11: Thermal Properties of Matter** Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, Qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Green house effect. **Unit VIII: Thermodynamics** **Chapter–12: Thermodynamics** Thermal equilibrium and definition of temperature (zeroth law of thermodynamics).Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes. Heat engine and refrigerator. Unit IX: Behaviour of Perfect Gases and Kinetic Theory of Gases **Chapter–13: Kinetic Theory** Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept

Moment of inertia, radius of gyration.Values of moments of inertia, for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.		of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.
DECEMBER	**PRACTICALS**	**JANUARY/ FEBRUARY/MARCH**
Unit X: Oscillations and Waves **Chapter–14: Oscillations** Periodic motion - time period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance. **Chapter–15: Waves** Wave motion. Transverse and longitudinal waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect. **UNIT-OPTICS** **Chapter-16: Ray Optics and Optical Instruments** **Ray Optics::** Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula. Magnification, power of a lens, combination of thin lenses in contact combination of a lens and a mirror. Refraction and dispersion of light through a prism. Scattering of light - blue colour of sky and reddish apprearance of the sun at sunrise and sunset. **Optical instruments:** Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.	**PRACTICALS (ANY 15 from both sections)** SECTION–A Experiments 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. 3. To determine volume of an irregular lamina using screw gauge. 4. To determine radius of curvature of a given spherical surface by a spherometer. 5. To determine the mass of two different objects using a beam balance. 6. To find the weight of a given body using parallelogram law of vectors. 7. Using a simple pendulum, plot its L-T2 graph and use it to find the effective length of second's pendulum. 8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. 9. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface. 10. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between force and sinθ. SECTION–B Experiments 1. To determine Young's modulus of elasticity of the material of a given wire. 2. To determine the surface tension of water by capillary rise method 3. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body 4. To determine specific heat capacity of a given solid by method of mixtures 5. a) To study the relation between frequency and length of a given wire under constant tension using sonometer b) To study the relation between the length of a given wire and tension for constant frequency using sonometer. 6. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions. 7. To find the value of v for different values of u in case of a concave mirror and to find the focal length.	**Revision/Annual Exams**

	8. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and 1/v. 9. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 10. To determine refractive index of a glass slab using a travelling microscope.	

ACCOUNTS

APRIL	May	JULY
Chapter-1 Meaning and Objectives of Accounting Chapter-2 Basic Accounting Term Chapter-6 Accounting Equation	Chapter-7 Double Entry System Chapter-9 Books of Original Entry Journal Chapter-10 Books of Original Entry Cash Book	Chapter-12 Ledger Chapter-13 Trial Balance and Error Chpater-11 Books of Original Entry-Special Purpose Subsidiary book Chapter-14 Bank Reconciliation Statement
AUGUST	**SEPTEMBER**	**OCTOBER**
Chapter-15 Depreciation Chapter-16 Provisions and Reserves Chapter-17 Bills of Exchange	Chapter-19 Financial statements Chapter-20 Financial Statements with Adjustment	Chapter-21 Financial Statements of Non Profit Organization Chapter-3 Accounting Principles Chapter-22 Accounts from Incomplete records
NOVEMBER	**DECEMBER**	**JANUARY**
Chapter-4 Process and Basis of Accounting Chapter-5 Accounting standards and International Financial Reporting Chapter-8 Origin of Transactions: Source Documents of accounting	Chapter-18 Rectification of Error Chapter-23 Introduction to Computers Chapter-24 Introduction to Accounting Information System Chapter-25 Computerized Accounting System	Chapter-26 Accounting Software Package: Tally **FEBRUARY/MARCH** **Revision/Annual Exams**

CHEMISTRY

APRIL	May	JULY
Chapter-1 Some basic concepts of Chemistry Topics: Importance of Chemistry Nature of matter Properties of matter and their measurement Uncertainty in measurement Laws of chemical combination Dalton's Atomic theory Atomic and molecular masses Mole concept and molar-masses Percentage composition Stoicheometry and stoicheometric calculations	Chapter-1 Some basic concepts of chemistry Chapter-2 Structure of Atom Topic: Sub-atomic particles Atomic Models Developments leading to Bohr's model of Atom Bohr's Model for Hydrogen Atom Quantum mechanical model of Atom, Quantum Numbers Electronic configuration Exceptional electronic configuration	Chapter-3 Classification of elements and Periodicity in properties Topics: Why do we need to classify elements? Modern periodic law and present form of periodic tables Nomenclature of elements with atomic number >100 Electronic configuration of elements and periodic table Electronic configuration and types of elements "s, p, d, f-block Periodic trends in properties of elements Chapter-4 Chemical bonding and molecular structure Kossel-Law approach to chemical bonding Ionic or electrovalent bond Valence shell electrum, pair repulsive theory(VSEPR) Valence bond theory Hybridization Molecular Orbital theory Bonding in some Homonuclear diatomic molecules Hydrogen bonding
AUGUST	**SEPTEMBER**	**OCTOBER**
Chapter-5 States of matter Topics: Intermolecular forces Thermal Energy Intermolecular forces vs Thermal Interactions The gaseous state The gas Laws Ideal Gas equation Kinetic molecular theory of gases Behaviour of real gases Deviation from ideal gas behavior Liquefaction of gases Liquid state Chapter-6 Thermodynamics Thermodynamics state Applications Measurement of ΔU and ΔH	Ch-7 Equilibrium Topics: Law of chemical Equilibrium and Equilibrium constant Homogeneous Equilibrium Heterogeneous Equilibrium Acids, bases, and salts Buffer solutions Ionic Equilibrium in solution	Ch-8 Redox reactions Topics: Classical Idea Redox reaction Oxidation and reduction reactions Oxidation number Redox reactions and electrode processes Ch-9 Hydrogen Topics: Dihydrogrn as a fuel Position of hydrogen in the periodic table Water Hydrides Dehydrogenate as a fuel Ch-10 S-block elements Group-1 element: Alkali metals Anomalous properties of Lithium Some important compounds of sodium

NOVEMBER	DECEMBER	JANUARY/ FEBRUARY
Ch-11 The P-block elements Topics: Group-13 elements: The boron family Important trends and Anomalous properties of boron Group 14 elements-The carbon family] Ch-12 Organic chemistry-Some basic principles and techniques Tetra valence of carbon: shapes of carbon compounds Classification of Organic compounds Fundamental concepts in organic reaction mechanism	Ch-13 Hydrocarbons Topics: Classification Alkenes Aromatic Hydrocarbon Ch-14 Environment Chemistry Topics: Environmental pollution Water pollution Soil pollution Industrial waste Green chemistry	**Revision** **MARCH** **Annual Exams**