

**CENTRAL ACADEMY SR. SEC. SCHOOL UMARIA (M.P.)**  
**SPLIT - UP OF SYLLABUS [2019-20]**  
**CLASS – XI : BIOLOGY**

**THEORY**

<b>UNIT</b>	<b>TITLE</b>	<b>MARKS</b>	<b>NO. OF PERIODS</b>
I	DIVERSITY OF LIVING ORGANISMS	7	23
II	STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS	12	22
III	CELL: STRUCTURE AND FUNCTION	15	35
IV	PLANT PHYSIOLOGY	18	40
V	HUMAN PHYSIOLOGY	18	40
	<b>TOTAL</b>	<b>70</b>	<b>160</b>

**PRACTICAL**

<b>Sl. No.</b>	<b>Evaluation Scheme</b>	<b>Marks</b>
1.	One Major Experiment Part A (Expt. No. 1, 3, 7, 8)	5 Marks
2.	One Minor Experiment Part A (Expt. No. 6, 9, 10, 11, 12, 13)	4 marks
3.	Slide Preparation Part A (Expt. No. 2, 4, 5)	5 marks
4.	Spotting Part B	7 marks
5.	Practical Record + Viva Voce	4 marks
6.	Project Record + Viva Voce	5 marks
	<b>Total</b>	<b>30 marks</b>

**SYLLABUS FOR PERIODIC TESTS / HALF Y E / S E E - 2017-18**  
**CLASS - XI : SUB – BIOLOGY**

TEST /EXAM SCHEDULE(Tentative)	CHAPTERS	TOTAL MARKS
Periodical Test-1	1,2,3,4,5,6 (as per NCERT book)	40 Marks
Half Yearly Examination	1 to 12 (as per NCERT book)	70 (Theory)+ 30 (Practical)
Periodical Test-2	13,14,15,16 (as per NCERT book)	40 Marks
Annual Examination	All the chapters as per CBSE Guidelines	70 (Theory)+ 30 (Practical)

**Month wise Split - up**

UNIT	TITLE OF THE UNIT AND NAME OF THE CHAPTER	MONTH	PERIODS REQUIRED	PRACTICALS
I	<b>DIVERSITY OF LIVING ORGANISMS</b> 1. The Living world	June	03	B.1. Study of the parts of a compound microscope
I	2. Biological Classification 3. Plant Kingdom 4. Animal Kingdom	July	20	Study of the specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
II	<b>STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS</b> 5. Morphology of Flowering		5	Study of virtual specimens/slides/models and identification with reasons - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

<p><b>II</b></p>	<p><b>STRUCTURAL ORGANISATION IN PLANTS AND ANIMALS</b>  <b>6. Anatomy of Flowering Plants</b>  <b>7. Structural Organisation in Animals.</b></p>	<p><b>August</b></p>	<p><b>16</b></p>	<p><b>A.1.</b> Study and description of three locally available common flowering plants, one from each of the Families Solanaceae, Fabaceae and Liliaceae including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams). Types of root (Tap and adventitious); stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</p> <p><b>A.2</b> Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p>
<p><b>III</b></p>	<p><b>CELL: STRUCTURE AND FUNCTION</b>  <b>8. Cell-The Unit of Life</b></p>	<p><b>September</b></p>	<p><b>09</b></p>	<p><b>B.4.</b> Study of tissues and diversity in shapes and sizes of plant and animal cells (palisade cells, guard cells, parenchyma, collenchyma, sclerenchyma, xylem, phloem, squamous epithelium, muscle fibers and mammalian blood smear) through temporary/permanent slides  Study of different modifications in roots, stems and leaves.</p> <p>Study and identification of different types of inflorescence (cymose and racemose).  Study of imbibition in seeds/raisins.</p> <p><b>A.7.</b> Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials.</p>
	<p><b>III</b></p>		<p><b>19</b></p>	

<b>IV</b>	<b>PLANT PHYSIOLOGY</b> 11. Transport in Plants 12. Mineral Nutrition	<b>October</b>	<b>15</b>	Test for presence of urea in urine. Test for presence of sugar in urine. Test for presence of albumin in urine. Test for presence of bile salts in urine
<b>IV</b>	13. Photosynthesis in Higher Plants 14. Respiration in Plants	<b>November</b>	<b>14</b>	<b>B.5.</b> Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides. <b>A.3.</b> Study of osmosis by potato osmometer.
<b>IV</b>	15. Plant - Growth and Development	<b>December</b>	<b>11</b>	Study of plasmolysis in epidermal peels (e.g. Rhoen leaves). Study of distribution of stomata in the upper and lower surface of leaves.
<b>V</b>	<b>HUMAN PHYSIOLOGY</b> 16. : Digestion and Absorption		<b>08</b>	Comparative study of the rates of transpiration in the upper and lower surface of leaves.
<b>V</b>	<b>HUMAN PHYSIOLOGY</b> 17. Breathing and Exchange of Gases 18. Body Fluids and Circulation 19. Excretory Products and Their Elimination 20. Locomotion and Movement	<b>January</b>	<b>19</b>	<b>A.8.</b> Separation of plant pigments through paper chromatography. <b>B.9.</b> Observation and comments on the experimental set up for showing: a) Anaerobic respiration b) Phototropism c) Effect of apical bud removal d) Suction due to transpiration
<b>V</b>	21. Neural Control and Coordination 22. : Chemical Coordination and Integration	<b>February</b>	<b>13</b>	<b>B.10.</b> Study of human skeleton and different types of joints with the help of virtual images/models only <b>B.11.</b> Study of external morphology of cockroach through virtual images/models.


**CENTRAL ACADEMY SCHOOL UMARIA**

**SPLIT UP SYLLABUS.SESSION 2019-20.CLASS XI –MATHEMATICS**

MONTH	CHAPTER/TOPIC	PERIODS REQUIRED
JUNE & JULY	<p>1. <b>Sets</b> : Sets and their representations. Empty set.Finite and Infinite sets.Equal sets.Subsets.Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets.Difference of sets. Complement of a set. Properties of Complement Sets.</p>	45
	<p>2. <b>Relations &amp; Functions:</b> Ordered pairs, Cartesian product of sets.Number of elements in the cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto <math>R \times R \times R</math>). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotient of functions.</p>	
	<p>3. <b>Trigonometric Functions:</b> Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another.Definition of trigonometric functions with the help of unit circle. Truth of the identity <math>\sin^2 x + \cos^2 x = 1</math>, for all <math>x</math>. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs.</p>	
AUGUST	<p>1. <b>Trigonometric Functions(conti...)</b> : Expressing <math>\sin(x \pm y)</math> and <math>\cos(x \pm y)</math> in terms of <math>\sin x</math>, <math>\sin y</math>, <math>\cos x</math> &amp; <math>\cos y</math> and their simple applications. Deducing the identities like the following: <math>\tan(x \pm y)</math>, <math>\cot(x \pm y)</math>, <math>\sin \alpha \pm \sin \beta</math>, <math>\cos \alpha + \cos \beta</math>, <math>\cos \alpha - \cos \beta</math> etc. Identities related to <math>\sin 2x</math>, <math>\cos 2x</math>, <math>\tan 2x</math>, <math>\sin 3x</math>, <math>\cos 3x</math> and <math>\tan 3x</math>. General solution of trigonometric equations of the type <math>\sin y = \sin \alpha</math>, <math>\cos y = \cos \alpha</math> and <math>\tan y = \tan \alpha</math>. Properties of triangles (Supplementary portion)</p>	33
	<p>2. <b>Principle of Mathematical Induction:</b> Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.</p>	
	<p>3. <b>Complex Numbers and Quadratic Equations</b> Need for complex numbers, especially <math>\sqrt{-1}</math>, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers.Argand plane and polar representation of complex numbers.</p>	
SEPTEMBER	<p>1. <b>Complex Numbers and Quadratic Equations(conti....)</b> Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system. Square root of a complex</p>	27

	<p>number.</p> <p><b>2. Linear Inequalities</b> Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solutions of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables</p> <p><b>3. Permutations and Combinations</b> Fundamental principle of counting. Factorial <math>n</math>. (<math>n!</math>) Permutations and combinations, derivation of formulae for and their connections, simple applications.</p>	
OCTOBER	<p><b>Binomial Theorem:</b></p> <ol style="list-style-type: none"> <li>History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, General and middle term in binomial expansion, simple applications.</li> <li><b>Sequence and Series:</b> Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of first <math>n</math> terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.</li> </ol>	28
NOVEMBER	<ol style="list-style-type: none"> <li><b>Sequence and Series (Conti...)</b> Formulae for the sum of special sequences and problems based on it.</li> <li><b>Straight Lines</b> Brief recall of two dimensional geometry from earlier classes. Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point-slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.</li> </ol>	18
DECEMBER	<ol style="list-style-type: none"> <li><b>Conic Sections:</b> Sections of a cone: circle, ellipse, parabola, hyperbola, a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.</li> </ol>	25
	<ol style="list-style-type: none"> <li><b>Introduction to Three-dimensional Geometry:</b> Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.</li> </ol>	
	<ol style="list-style-type: none"> <li><b>Limits and Derivatives:</b> Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions.</li> </ol>	
JANUARY	<ol style="list-style-type: none"> <li><b>Limits &amp; Derivatives (Conti ....):</b> Definition of derivative relate it to slope of tangent of the curve, Derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.</li> </ol>	30

	<p>2. <b>Mathematical Reasoning:</b> Mathematically acceptable statements. Connecting words/ phrases - consolidating the understanding of "if and only if (necessary and sufficient) condition", "implies", "and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics. Validating the statements involving the connecting words, Difference between contradiction, converse and contrapositive.</p>	
	<p>3. <b>Statistics:</b> Measures of dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.</p>	
FEBRUARY	<p><b>Probability:</b> Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories studied in earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events. <b>REVISION</b></p>	28

  
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CENTRAL ACADEMY SR. SEC. SCHOOL, UMARIA  
SPLIT UP OF SYLLABUS – **PHYSICAL EDUCATION**  
CLASS – XI (2019-20)

MONTH	TOPIC	CONTENT	PERIODS
JUNE	<b>Unit-I</b> <b>Changing Trends &amp; Careers in Physical Education</b>	<ul style="list-style-type: none"> <li>▪ Define Physical Education, its Aims &amp; Objectives</li> <li>▪ Development of Physical Education- Post Independence</li> <li>▪ Concept of Principles Integrated Physical Education</li> <li>▪ Concept &amp; Principles of Adaptive Physical Education</li> <li>▪ Special Olympic Bharat</li> <li>▪ Career option in Physical Education</li> </ul>	10
	<b>Unit-II</b> <b>Olympic Movement</b>	<ul style="list-style-type: none"> <li>▪ Ancient and modern Olympics</li> <li>▪ Olympic Symbols, Ideals, Objectives and Values</li> <li>▪ International Olympic Committee</li> <li>▪ Indian Olympic Association</li> <li>▪ Dronacharya Award, Arjun Award &amp; Rajiv Gandhi Khel Ratna Award</li> <li>▪ Organizational set-up of CBSE Sports &amp; Chacha Neheru Sports Award</li> <li>▪ Paralympics</li> </ul>	10
JULY	<b>Unit-III</b> <b>Physical Fitness, Well ness and Lifestyle</b>	<ul style="list-style-type: none"> <li>▪ Meaning and Importance of Physical Fitness, Wellness &amp; Lifestyle</li> <li>▪ Components of Physical Fitness</li> <li>▪ Components of wellness</li> <li>▪ Components of Health related Fitness</li> <li>▪ Preventing Health Threats through Lifestyle Change</li> <li>▪ Components of Positive Lifestyle</li> </ul>	10
	<b>Unit-IV</b> <b>Physical Education and Sports for Differently Abled</b>	<ul style="list-style-type: none"> <li>▪ Aims &amp; Objectives of Adaptive Physical Education</li> <li>▪ Organization promoting Adaptive Sports (Special Olympic Bharat Paralympics, Deaflympics)</li> <li>▪ Concept and need of Integrated Physical Education</li> <li>▪ Concept of Inclusion, its need and Implementation</li> <li>▪ Role of various Professionals for children with special needs (Counselor, Occupational Therapist)</li> <li>▪ Physiotherapist, Physical Education Teacher, Speech Therapist &amp; Special Educator)</li> </ul>	12

MONTH	TOPIC	CONTENT	PERIODS
AUGUST	<b>Unit- V</b> <b>Yoga</b>	<ul style="list-style-type: none"> <li>▪ Meaning and Importance of Yoga</li> <li>▪ Yoga is an Indian Heritage</li> <li>▪ Elements of Yoga</li> <li>▪ Introduction to Asanas, Pranayamas, Mediation &amp; Yogic Kriyas</li> <li>▪ Yoga for Concentration &amp; related Asanas (Sukhasana, Tadasana, Padmasana &amp; Sashankasana)</li> <li>▪ Relaxation Techniques for improving Concentration-</li> </ul>	10




	<b>Unit- VI Physical Activity &amp; Leadership Training</b>	<p>Yog Nidra</p> <ul style="list-style-type: none"> <li>• Introduction to Physical Activity &amp; Leadership</li> <li>• Qualities and role of a Leader</li> <li>• Behaviour change stages for Physical Activity (Pre-contemplation, Contemplation, Planning, Active Maintenance)</li> <li>• Creating leaders through Physical Education</li> <li>• Meaning, objectives &amp; types of Adventure Sports (Rock Climbing, River Rafting, Trekking)</li> <li>• Mountaineering, Surfing and Para Gliding</li> <li>• Safety measures during physical activity and adventure sports</li> </ul>	10
SEPTEMBER	<b>Unit- VII Test &amp; Measurement &amp; Evaluation</b>	<ul style="list-style-type: none"> <li>• Define Test &amp; measurement</li> <li>• Importance of Test &amp; measurement in Sports</li> <li>• Calculation of BMI &amp; Waist – Hip Ratio</li> <li>• Somato types (Endomorphy, Mesomorphy &amp; Ectomorphy)</li> <li>• Procedures of Anthropometric Measurement- Height, Weight, Arm &amp; Leg length and Skin fold</li> </ul>	10
	<b>Unit- VIII Fundamentals of Anatomy and Physiology</b>	<ul style="list-style-type: none"> <li>• Define Anatomy Physiology and its Importance</li> <li>• Function of Skeleton system, Classification of bones &amp; Types of Joints</li> <li>• Properties of Muscles</li> <li>• Function and Structure of Muscles</li> <li>• Function and Structure of Respiratory system, Mechanism of Respiration</li> <li>• Structure of Heart &amp; Introduction to Circulatory system</li> <li>• Oxygen debt, Second wind</li> </ul>	12

MONTH	TOPIC	CONTENT	PERIODS
OCTOBER	<b>Unit- IX Kinesiology, Biomechanics &amp; Sports</b>	<ul style="list-style-type: none"> <li>• Meaning and importance of Biomechanics in Physical Education and Sports</li> <li>• Newton's Law of Motion and its application in Sports</li> <li>• Levers &amp; its types and application in Sports</li> <li>• Equilibrium – Dynamic &amp; Static and Center of Gravity and its application in Sports</li> <li>• force- Centrifugal &amp; Centripetal and its application in Sports</li> <li>• introduction to Buoyancy Force</li> </ul>	15

NOVEMBER	<b>Unit- X Psychology and Sports</b>	<ul style="list-style-type: none"> <li>• Definition &amp; importance of Psychology in Physical Education and Sports</li> <li>• Define &amp; differentiate between Growth and Development</li> <li>• Developmental characteristics at different stages of Development</li> <li>• Adolescent problems &amp; their management</li> <li>• Define Learning, Laws of Learning &amp; transfer of Learning</li> <li>• Plateau &amp; causes of Plateau</li> <li>• Emotion: Concept &amp; controlling of Emotion</li> </ul>	15
	<b>MID TERM EXAMINATION/HALF YEARLY EXAMINATION</b>		05
DECEMBER	<b>Unit- XI Training in Sports</b>	<ul style="list-style-type: none"> <li>• Meaning and concept of Sports Training</li> <li>• Principles of Sports Training</li> <li>• Warming up &amp; Limbering down</li> <li>• Load, Adaption &amp; Recovery</li> <li>• Skill, Techniques and Style</li> <li>• Role of Free-play in the development of Motor Component</li> </ul>	10
	<b>Unit- XII Doping</b>	<ul style="list-style-type: none"> <li>• Concept and classification of Doping</li> <li>• Prohibited substances &amp; Methods</li> <li>• Athletes Responsibilities</li> <li>• Side effects of Prohibited substances</li> <li>• Ergogenic aids &amp; doping in Sports</li> <li>• Doping control procedure</li> </ul>	10
	<b>PRACTICAL EXAMINATION</b>		07
FEBRUARY	<b>REVISION</b>		20
MARCH	<b>SESSION ENDING EXAMINATION</b>		

N.B:- It is proposed that, only two examination (Half yearly and Session Ending) will be conducted for Class-XI Physical Education for the session 2018-19.

  
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## CENTRAL ACADEMY SR.SEC. SCHOOL, UMARIA(M. P.)

### SPLIT UP SYLLABUS CLASS XI PHYSICS

S NO	UNIT	TITLE	NO OF PERIODS	MONTH	WORKING DAYS	MARKS
1	I	Electrostatics	22	APRIL, MAY JUNE	34	15
2	II	Current Electricity :	20			
3	III	Magnetic Effect of Current and Magnetism	22	JULY	26	16
4	IV	Electromagnetic Induction and Alternating Current	20	AUGUST	24	
5	V	Electromagnetic Waves	4			
6	VI	Optics	25	SEPTEMBER	21	17
7	VII	Dual Nature of Radiation and Matter	8	OCTOBER	18	10
8	VIII	Atoms and Nuclei	14			
9	IX	Electronic Devices	15	NOVEMBER	20(9 working days upto	12
10	X	Communication Systems	10			
			<b>160</b>		<b>123</b>	70

syllabus have to be completed as per the split-up. Extra classes may be taken if required for completion of syllabus in time.

**SPLIT UP OF THEORY AND PRACTICALS ( ASSUMING THAT THERE ARE 5 THEORY PERIODS AND 4 PRACTICAL PERIODS IN A WEEK)**

UNIT	UNIT	TOPICS	PERIODS ALLOTTED FOR TEACHING	MONTH FOR COMPLETION	No of period for Practicals	Practicals
L	Electrostatics	<b>Electric Charges and Fields</b> 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, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).	12	APRIL	4	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.
		<b>Electrostatic Potential and Capacitance</b> Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical 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 polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.	10	MAY-JUNE	12	2. To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material.

	2	Current Electricity :	Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple	20	JUNE-JULY		3. To verify the laws of combination (series) of resistances using a metre bridge.
			Moving Charges and Magnetism Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields, Cyclotron. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of	12	JULY	12	4. To verify the laws of combination (parallel) of resistances using a metre bridge.
	3	Magnetic Effect of Current and Magnetism	Magnetism and Matter Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements. Para-, dia- and ferro - magnetic substances, with examples. Electromagnets and factors affecting their strengths, permanent magnets.	10	JULY		5. To compare the EMF of two given primary cells using potentiometer.

			<b>Electromagnetic Induction</b> Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.	10	AUGUST	12	6. To determine the internal resistance of given primary cell using potentiometer.
4	Electromagnetic Induction and Alternating Current	<b>Alternating Current</b> Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, power factor, wattless current. AC generator and transformer.		10	AUGUST		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
5	Electromagnetic Waves	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 rays) including elementary facts about their uses.		4	SEPTEMBER	12	
		<b>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, refraction and dispersion of light through a prism.</b> Scattering of light - blue colour of sky and reddish appearance of the sun at sunrise and sunset. <b>Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.</b>		15	SEPTEMBER		1. To find the value of $v$ for different values of $u$ in case of a concave mirror and to find the focal length.

6	Optics	<p><b>Wave Optics</b>  <b>Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light, diffraction due to a single slit, width of central maximum, resolving power of microscope and astronomical telescope, polarisation, plane polarised light, Brewster's law, uses of plane polarised light and Polaroids.</b></p>	10	SEPTEMBER		3. To find the focal length of a convex lens by plotting graphs between $u$ and $v$ or between $1/u$ and $1/v$ .
7	Dual Nature of Radiation and Matter	<p>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, Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).</p>	8	OCTOBER	8	4. To find the focal length of a concave lens, using a convex lens.
	Atoms and Nuclei	<p><b>Atoms</b>  <b>Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.</b></p>	7	OCTOBER		5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
8		<p><b>Nuclei</b>  <b>Composition and size of nucleus, Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number; nuclear fission, nuclear fusion.</b></p>	7	OCTOBER		6. To determine refractive index of a glass slab using a travelling microscope.

	9	Electronic Devices	Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell and Zener diode and their characteristics, zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor and transistor as an amplifier (common emitter configuration), basic idea of analog and digital signals, Logic gates (OR, AND, NOT, NAND and NOR).	15	NOVEMBER	12	7. To find refractive index of a liquid by using convex lens and plane mirror. 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	Communication Systems	Elements of a communication system (block diagram only); bandwidth of signals (speech, TV and digital data); bandwidth of transmission medium. Propagation of electromagnetic waves in the atmosphere, sky and space wave propagation, satellite communication. Need for modulation, amplitude modulation	10	NOVEMBER				

Note: A total of 15 experiments to be done selecting atleast 7 experiment from each section. A total of 5 Activities to be demonstrated. Project work as per syllabus.

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# Central Academy Sr. Sec. School, Umaria

Split up syllabus - 2019-20

Class-XI

Subject-Economics

S. no.	Month	Expected working day	Unit	Detailed split up
1.	June/July	6+22=28	<p><b>Part-A</b> <b>Statistics for Economics</b></p> <p><b>Unit I:</b> Introduction</p> <p><b>Unit II:</b> Collection, Organization and Presentation of Data</p>	<p>What is Economics?</p> <p>Meaning, scope and importance of statistics in Economics</p> <p><b>Collection of data</b> - sources of data - primary and secondary; how basic data is collected; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organization.</p> <p><b>Organization of Data:</b> Meaning and types of variables; Frequency Distribution.</p> <p><b>Presentation of Data:</b> Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and ogive) and (iii) Arithmetic line graphs (time series graph).</p>
2.	August	22	<p><b>Unit III:</b> Statistical Tools and Interpretation</p>	<p><b>Measures of Central Tendency - mean</b></p>

				<p>(simple and weighted), median and mode</p> <p><b>Measures of Dispersion</b> - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of quartile deviation, co-efficient of mean deviation, co-efficient of variation); Lorenz Curve: Meaning and its application.</p> <p><b>Correlation</b> - meaning, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.</p> <p><b>Introduction to Index Numbers</b> - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.</p>
3.	September	22	<p><b>Part B</b> <b>Introductory Microeconomics</b></p> <p><b>Unit IV:</b> Introduction</p> <p><b>Unit V:</b> Consumer Equilibrium and Demand</p>	<p>Meaning of microeconomics and macroeconomics</p> <p>What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.</p> <p>Consumer's equilibrium – meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the</p>

				<p>consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand - (a) percentage-change method and (b) geometric method (linear demand curve); relationship between price elasticity of demand and total expenditure.</p>
4.	October	20	<p><b>Unit VI:</b> Producer Behavior and Supply</p>	<p>Production function - Short-Run and Long-Run</p> <p>Total Product, Average Product and Marginal Product.</p> <p>Returns to a Factor.</p> <p>Cost and Revenue: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship.</p> <p>Revenue - total, average and marginal revenue - meaning and their relationship.</p> <p>Producer's equilibrium-meaning and its conditions in terms of marginal revenue-marginal cost.</p> <p>Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - (a) percentage change method and (b)</p>

				geometric method.
5.	November	18	<b>Unit VII:</b> Forms of Market and Price Determination	<p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features.</p> <p>Simple Applications of Demand and Supply: Price ceiling, price floor</p>
6.	December	18	Revision of Part A	
7.	January	20	Revision of Part B	
8.	February	16	Revision	

  
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पाठ्यक्रम -विभाजन  
सत्र -2019-20  
विषय -हिन्दी (केंद्रिक )  
कक्षा -11

क्रम संख्या	माह	कालावधि	पुस्तक	पाठ /अध्याय
01 02 03	जून	२४	अपठित बोध रचनात्मक लेखन आरोह -1	अपठित गद्यांश निबंध लेखन पत्र लेखन जन संचार माध्यम कबीर के पद मीरा के पद नमक का दरोगा (पद्य ) (पद्य ) (पद्य )
04 05	जुलाई	३०	अपठित बोध रचनात्मक लेखन आरोह -1 वितान -1	अपठित पद्यांश निबंध लेखन पत्र लेखन क्रीचर पथिक मियाँ नसीरुद्दीन (पद्य ) (गद्य ) भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर प्रथम आवर्ती परीक्षा के लिए अभ्यास
08 09 10	अगस्त	२८	रचनात्मक लेखन आरोह -1	प्रथम आवर्ती परीक्षा (प्रथम सप्ताह ) प्रतिवेदन (रिपोर्ट ) पत्रकारिता (जनसंचार माध्यम ) वे ऑर्ड (पद्य ) अपू के साथ ढाई साल (गद्य ) विदाई संभाषण (गद्य )
11			वितान -1	राजस्थान की रजत बूंदें (गद्य )
12	सितंबर	२५	रचनात्मक लेखन	जन संचार माध्यम

13			आरोह -1	निबंध लेखन घर की याद (पद्य ) चंपा काले -काले अक्षर नहीं चीन्ही (पद्य ) गलता लोहा (गद्य ) स्पीती में बारिश (गद्य )
14	अक्तूबर	२०	अपठित बोध रचनात्मक लेखन	अपठित (गद्य ) पत्रकारिता (जनसंचार ) गजल (पद्य ) रजनी (गद्य ) मौखिक परीक्षा (श्रवण व वाचन कौशल ) मध्य सत्र -परीक्षा के लिए अभ्यास कार्य
15			आरोह -1	
16			आरोह -1	
17				
18	नवंबर	२४	रचनात्मक लेखन	आलेख मध्य सत्र -परीक्षा हे भूख मत मचल (पद्य ) जामुन का पेड़ (गद्य )
19			आरोह -1	
20			आरोह -1	
21	दिसंबर	२२	आरोह -1	सबसे खतरनाक (पद्य ) भारत माता (गद्य ) आलो-आधारि
22			वितान -1	द्वितीय आवर्ती परीक्षा के लिए अभ्यास कार्य
23	जनवरी	२६	रचनात्मक लेखन	द्वितीय आवर्ती -परीक्षा (प्रथम सप्ताह) फिचर लेखन आलेख लेखन आओ , मिलकर बचाएँ (पद्य ) आत्मा का ताप (गद्य ) मौखिक परीक्षा (श्रवण व वाचन कौशल ) अभ्यास कार्य
24			आरोह -1	
25				
26				
27				
28	फरवरी			पूर्व सत्रांत परीक्षा अभ्यास कार्य

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**CENTRAL ACADEMY SR. SECONDARY SCHOOL**  
**SPLIT UP SYLLABUS-2018-19**  
**Class-XI SUBJECT – ENGLISH CORE**

Month	Horribill (Main reader)	Snapshots/The Canterbury Ghost (Supp. Reader)	Reading/Writing Skills	Grammar
July	1. The Portrait of a lady	1. The summer of the Beautiful White Horse.	<b>Reading Comprehension</b> Note-Making & Summarising	Determiners
August	2. We're not afraid to Die ... Poem-A Photograph	2. The Address. Introduction to the novel "The Canterbury Ghost" and the novelist 'Oscar Wilde'.	<b>Notice /poster/Advertisements</b>	Tenses Modals
September	3. Discovering Tut.....	3. Ranga's Marriage. Discussion of Chapter 1 & 2 of the novel	<b>Letter Writing:</b> Business & Official Letters (for making enquiries, registering complaints, asking for and giving	Voice Clauses
October	4. The Ailing Planet.	4. Albert Einstein at School. Chapter 3 & 4 of Novel	Report Writing Letter to the editor	Re arranging Jumbled words and phrases.
November	P.-The Voice of the Rain.	5. Mother's Day. Revision for Half Yearly Exam	Application for a job Article Writing	Editing passages
December	5. The Browning Version.	6. Birth. Chapter 5 of the novel	Speech writing Factual Description	Error Correction
January	P-Childhood.	7. The Tale of Melon City. Chapter 6 of the novel Chapter 7 of the novel. Discussion of theme, plot and characters	Process writing Creative Writing.	Grammar Revision
February		Revision	Letter placing order and sending replies. Revision	Revision

**SYLLABUS FOR PERIODIC TEST/ HY & SE EXAM**

**(CLASS -XI : SUBJECT - BUSINESS STUDIES)**

SL.NO.	NAME OF THE EXAM.	TOPICS TO BE COVERED	WEIGHTAGE OF MARKS	TENTATIVE DATE OF EXAM
1	PERIODIC TEST-I (40 Marks)	1. Nature and Purpose of Business	15	18 <sup>TH</sup> TO 26 <sup>TH</sup> AUG., 2017
		2 .Forms of Business Organizations	25	
2	HALF YEARLY EXAM (90 Marks +10 Marks Project)	1. Nature and Purpose of Business	10	06 <sup>TH</sup> TO 15 <sup>TH</sup> NOV., 2017
		2 .Forms of Business Organizations	15	
		3. Public, Private and Global Enterprises	20	
		4. Business Services	20	
		5 .Emerging Modes of Business	15	
		6 .Social Responsibility of Business and Business Ethics	10	
3	PERIODIC TEST-II (40 Marks)	7 .Sources of Business Finance	25	15 <sup>TH</sup> TO 23 <sup>RD</sup> JAN., 2018
		8 .Small Business	15	
4	SESSION ENDING EXAM (90 Marks +10 Marks Project)	All Units/Chapters as per Split Up Syllabus and Marks Distribution of CBSE	-----	1 <sup>ST</sup> WEEK OF MARCH 2018

Note:- Syllabus for Session Ending Exam to be completed by 15<sup>th</sup> of FEBRUARY 2018.

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CENTRAL ACADEMY SR. SEC. SCHOOL, UMARIA  
SPLIT UP SYLLABUS  
ACCOUNTANCY  
CLASS-XI  
SESSION - 2019-20

SL NO	MONTH	EXPECTED WORKING DAY	UNIT	DETAILED SPLIT UP	PERIODS FOR CLASS ROOM TEACHING	COMPUTER AIDED TEACHING PERIODS	TOTAL NO. OF PERIODS
1	June	24	Theoretical Framework	<p><b>Accounting- concept</b>, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs.</p>	09	01	10
				<p>Basic accounting terms: business transaction, account, capital, drawings, liabilities (non - current and current); assets (non-current and current) fixed assets (tangible and intangible assets), receipts (capital and revenue), expenditure (capital, revenue and deferred), expense, income, profits, gains and losses, purchases, purchases returns, sales, sales return, goods, stock, inventory, trade receivables (debtors and bills receivable), trade payables (creditors and bills payable), cost, vouchers, discount - trade and cash.</p>	10		10
				<p><b>Theory Base of Accounting:</b> Fundamental accounting assumptions: going concern, consistency and accrual. Accounting principles: accounting entity, money measurement, accounting period, full disclosure, materiality, prudence, cost concept, matching concept and dual aspect.</p> <p>Accounting Standards and IFRS (International Financial Reporting Standards): concept and objectives Double entry system of accounting. Bases of accounting - cash basis and accrual basis.</p> <p><b>Recording of transaction:</b> Accounting equation</p>	08	02	10
2	July	24	Accounting Process	<p><b>Recording of Transactions</b> Accounting equation: analysis of transactions using accounting equation. (contd...) Rules of debit and credit: for assets, liabilities, capital, revenue and expenses.</p>	05	01	06
					36	00	36

					<p><b>Origin of transactions-</b> source documents/ supporting vouchers (invoice, cash memo, pay in slip, cheque etc.), debit note, credit note, preparation of accounting vouchers - cash (debit and credit) and non-cash (transfer).</p> <p><b>Books of original entry:</b> format and recording - <b>Journal.</b></p> <p><b>Cash book:</b> simple cash book, cash book with bank columns and petty cash book. Other books: purchases book, sales book, purchases returns book, sales returns book and journal proper.</p> <p><b>Preparation of Bank Reconciliation Statement, Ledger and Trial Balance.</b></p> <p>Bank reconciliation statement- concept, calculating bank balance at an accounting date: need and preparation. Corrected cash book balance</p> <p><b>Ledger</b> - format, posting from journal, cash book and other special purpose books, balancing of accounts.</p> <p><b>Trial balance:</b> objectives and preparation (Scope: Trial balance with balance method only)</p> <p><b>Depreciation, Provisions and Reserves:</b></p> <p>Depreciation: concept, need and factors affecting depreciation; methods of computation of depreciation: straight line method, written down value method (excluding change in method) Accounting treatment of depreciation: by charging to asset account, by creating provision for depreciation/ accumulated depreciation account, treatment of disposal of asset.</p>			
	August (First periodic test)	16						
3					<p><b>Depreciation (contd....)</b></p> <p><b>Provisions and reserves:</b> concept, objectives and difference between provisions and reserves; types of reserves- revenue reserve, capital reserve, general reserve and specific reserves.</p> <p><b>Accounting for Bills of Exchange.</b> Bills of exchange and promissory note: definition, features, parties, specimen and distinction. Important terms : term of bill, due date, days of grace, date of maturity, discounting of bill, endorsement of bill, bill sent for collection, dishonor of bill, noting of bill , retirement and renewal of a bill.</p>	23	02	25
	September	21						
						28	02	30

				Accounting treatment of bill transactions.			
				<b>Rectification of Errors</b> Errors: types-errors of omission, commission, principles, and compensating; their effect on Trial Balance. Detection and rectification of errors; preparation of suspense account.	23	02	25
	October	17	<b>Financial Statements of Sole Proprietorship from Complete and Incomplete Records</b>	<b>Financial statements:</b> objective and importance. Trading and profit and loss account: gross profit, operating profit and net profit. Balance sheet: need, grouping, marshaling of assets and liabilities.			
	November (mid-term exam)	15		<b>Final accounts:</b> Adjustments in preparation of financial statements: with respect to closing stock, outstanding expenses, prepaid expenses, accrued income, and income received in advance, depreciation, bad debts, provision for doubtful debts, provision for discount on debtors, abnormal loss, goods taken for personal use, goods distributed as free samples and manager's commission. Preparation of Trading and Profit and Loss account and Balance Sheet of sole proprietorship. <b>Incomplete records:</b> uses and limitations. Ascertainment of profit/loss by statement of affairs method.	18	02	20
4			<b>Financial Statements of Not-for-Profit Organizations</b>	<b>Not-for-profit organizations:</b> concept. Receipts and Payments Account: features and preparation. Income and Expenditure Account: features, preparation of income and expenditure account and balance sheet from the given receipts and payments account with additional information. Scope: (i) Adjustments in a question should not exceed 3 or 4 in number and restricted to subscriptions, consumption of consumables and sale of assets/ old material. (ii) Entrance/admission fees and general donations are to be treated as revenue receipts. (iii) Trading Account of incidental activities is not to be prepared.	23	02	25
	December	19					

5	January (third periodic test)	20	<p style="text-align: center;"><b>Computers in Accounting</b></p>	<p><b>Introduction to computer and accounting information system {AIS}</b>: Introduction to computers (elements, capabilities, limitations of computer system), Introduction to operating software, utility software and application software. Introduction to accounting information system (AIS) as a part of Management Information System.</p> <p>Automation of accounting process: meaning</p> <p>Stages in automation: (a) Accounting process in a computerised environment; comparison between manual accounting process and computerised accounting process. (b) Sourcing of accounting software; kinds of software: readymade software; customised software and tailor-made software; generic considerations before sourcing accounting software (c) creation of account groups and hierarchy (d) generation of reports - trial balance, profit and loss account and balance sheet. Scope: (i) The scope of the unit is to understand accounting as an information system for the generation of accounting information and preparation of accounting reports. (ii) It is presumed that the working knowledge of any appropriate accounting software will be given to the students to help them learn basic accounting operations on computers.</p>	13	02	15
6			<p style="text-align: center;"><b>PROJECT WORK</b></p>	<p><b>COMPREHENSIVE PROJECT</b> It is suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality</p>	10	02	12

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# Central Academy Sr. Sec. School, Umaria

Split up syllabus - 2019-20

Class-XI

Subject-Economics

S. no.	Month	Expected working day	Unit	Detailed split up
1.	June/July	6+22=28	<p><b>Part-A</b> <b>Statistics for Economics</b></p> <p><b>Unit I:</b> Introduction</p> <p><b>Unit II:</b> Collection, Organization and Presentation of Data</p>	<p>What is Economics?</p> <p>Meaning, scope and importance of statistics in Economics</p> <p><b>Collection of data</b> - sources of data - primary and secondary; how basic data is collected; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organization.</p> <p><b>Organization of Data:</b> Meaning and types of variables; Frequency Distribution.</p> <p><b>Presentation of Data:</b> Tabular Presentation and Diagrammatic Presentation of Data: (i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and ogive) and (iii) Arithmetic line graphs (time series graph).</p>
2.	August	22	<p><b>Unit III:</b> Statistical Tools and Interpretation</p>	<p><b>Measures of Central Tendency - mean</b></p>

				<p>(simple and weighted), median and mode</p> <p><b>Measures of Dispersion</b> - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of quartile-deviation, co-efficient of mean deviation, co-efficient of variation); Lorenz Curve: Meaning and its application.</p> <p><b>Correlation</b> - meaning, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.</p> <p><b>Introduction to Index Numbers</b> - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers.</p>
3.	September	22	<p><b>Part B</b> <b>Introductory Microeconomics</b></p> <p><b>Unit IV:</b> Introduction</p> <p><b>Unit V:</b> Consumer Equilibrium and Demand</p>	<p>Meaning of microeconomics and macroeconomics</p> <p>What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.</p> <p>Consumer's equilibrium – meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.</p> <p>Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the</p>

				<p>consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand - (a) percentage-change method and (b) geometric method (linear demand curve); relationship between price elasticity of demand and total expenditure.</p>
4.	October	20	<p><b>Unit VI:</b> Producer Behavior and Supply</p>	<p>Production function - Short-Run and Long-Run</p> <p>Total Product, Average Product and Marginal Product.</p> <p>Returns to a Factor.</p> <p>Cost and Revenue: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationship.</p> <p>Revenue - total, average and marginal revenue - meaning and their relationship.</p> <p>Producer's equilibrium-meaning and its conditions in terms of marginal revenue-marginal cost.</p> <p>Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - (a) percentage change method and (b)</p>

				geometric method.
5.	November	18	<b>Unit VII:</b> Forms of Market and Price Determination	<p>Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.</p> <p>Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features.</p> <p>Simple Applications of Demand and Supply: Price ceiling, price floor</p>
6.	December	18	Revision of Part A	
7.	January	20	Revision of Part B	
8.	February	16	Revision	

  
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# CENTRAL ACADEMY SR. SEC. SCHOOL UMARIA (M>P>)

## SPLIT UP SYLLABUS : SUBJECT – CHEMISTRY (XI) 2019-20

Month	Total periods	Topic/Chapter	Topic for Practical
June-July, 2017	10	1. Some Basic Concepts of Chemistry	Basic laboratory techniques Characterization & purification of chemical substances. Quantitative analysis
	14	2. Structure of Atom	
	08	3. Classification of Elements and Periodicity in Properties	
August, 2017	12	4. Chemical Bonding and Molecular Structure	Quantitative analysis (Contd.)
	10	5. States of Matter: Gases and Liquids	
September, 2017	16	6. Chemical Thermodynamics	Experiments related to Chemical equilibrium & pH change Qualitative analysis.
	14	7. Equilibrium	
October, 2017		Equilibrium (Contd.)	Qualitative Analysis. (Contd.)
	06	8. Redox Reactions	
November, 2017	08	9. Hydrogen	Quantitative Analysis (Contd.)
	18	10. s-Block Elements	
December, 2017	14	11. Some p-Block Elements	Detection of N, S and halogens in an organic compound
	04	12. Organic Chemistry: Some Basic Principles and Techniques	
January, 2018	10	12. Organic Chemistry: Some Basic Principles and Techniques (continued)	Investigatory project
	12	13. Hydrocarbons	
February, 2018	06	14. Environmental chemistry	Investigatory project
		Revision for Session ending examination	
March, 2018		Session Ending Examination	As per CBSE Guidelines

### Evaluation Scheme for Practical Examination for Class XI (2017-18)

Sl. No.	Experiment	Marks
1	Volumetric analysis	8
2	Salt Analysis	8
3	Content Based Experiment	6
4	Project Work	4
5	Class Record and Viva	4
<b>Total</b>		<b>30</b>

## Details of Periodic tests & Examinations for Class XI (2017-18)

Name of test/ examination	Tentative dates	Sl. No.	Syllabus	Marks Division	Total Marks
1 <sup>st</sup> Periodic test	18.08.2017 to 26.08.2017	1.	Some basic concepts of chemistry	08	40
		2.	Structure of atom	12	
		3.	Classification of elements and periodicity in properties	08	
		4.	Chemical Bonding and Molecular Structure	12	
Half Yearly Examination	06.11.2017 to 15.11.2017	1	Some Basic Concepts of Chemistry	08	70
		2	Structure of Atom	09	
		3	Classification of Elements and Periodicity in Properties	07	
		4	Chemical Bonding and Molecular Structure	09	
		5	States of Matter: Gases and Liquids	10	
		6	Chemical Thermodynamics	10	
		7	Equilibrium	10	
		8	Redox Reactions	07	
2 <sup>nd</sup> Periodic test	15.01.2018 To 23.01.2018	1	Hydrogen	06	40
		2	s- Block Elements	12	
		3	Some p-Block Elements	14	
		4	Organic Chemistry: Some Basic Principles and Techniques	08	
Session Ending Examination	1 <sup>st</sup> Week of March 2018	As per CBSE Guideline			70

  
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