

Detailed syllabus of class XIth Biology 2019-20

Month	No. of working days	Chapter/ Topic	Portion to be taught	Portion for U.T.
June	18	Ch.1 The living World Ch.2 Biological Classification Ch.3 Plant kingdom	What is living? Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature; tools for study of taxonomy- museums, zoological parks, herbaria, botanical gardens. Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids. Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category); Angiosperms - classification upto class, characteristic features and examples.	Ch.1 & 2
July	27	Ch.4 Animal kingdom Ch.5 Morphology of flowering plants Ch.6 Anatomy of flowering plants	Salient features and classification of animals non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category). Morphology and modifications: Internal Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed Anatomy and functions of different tissues.	
August	24	Ch.7 Structural organization in animals Ch.9 Biomolecules Ch.10 Cell cycle and cell division	Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action. Cell cycle, mitosis, meiosis and their significance	Ch.3,4,5
September	24	Ch.8 Cell- The unit of life Ch.11 Transport in plants	Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function;	Ch. 1,2,3,4,5,6, 7,9,10

			<p>endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p> <p>Movement of water, gases and nutrients; cell to cell transport, diffusion, facilitated diffusion, active transport; plant-water relations, imbibition, water potential, osmosis, plasmolysis; long distance transport of water - Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; transpiration, opening and closing of stomata; Uptake and translocation of mineral nutrients - Transport of food, phloem transport, massflow hypothesis.</p>	
October	12	Ch.12 Mineral nutrition	<p>Essential minerals, macro- and micronutrients and their role; deficiency symptoms; mineral toxicity; elementary idea of hydroponics as a method to study mineral nutrition; nitrogen metabolism, nitrogen cycle, biological nitrogen fixation.</p>	
November	26	<p>Ch.13 Photosynthesis in higher plants</p> <p>Ch.14 Respiration in plants</p> <p>Ch.15 Plant growth and development</p>	<p>Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C₃ and C₄ pathways; factors affecting photosynthesis.</p> <p>Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.</p> <p>Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; seed dormancy; vernalisation; photoperiodism.</p>	Ch.8,11,12
December	23	<p>Ch.16 Digestion and absorption</p> <p>Ch.17 Breathing and exchange of gases</p> <p>Ch.18 Body fluids and circulation</p>	<p>Alimentary canal and digestive glands, role of digestive enzymes and gastrointestinal hormones;</p> <p>Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates</p>	

			<p>and fats; calorific values of proteins, carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.</p> <p>Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.</p> <p>Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.</p>	
January	23	<p>Ch.19 Excretory products and their elimination</p> <p>Ch.20 Locomotion and movement</p> <p>Ch.21 Neural control and coordination</p>	<p>Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system – structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion; disorders - uraemia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.</p> <p>Types of movement - ciliary, flagellar, muscular; skeletal muscle- contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout. Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse; reflex action; sensory perception; sense organs; elementary structure and functions of eye and ear</p>	Ch.13,14,15,16
February	23	Ch.22 Chemical coordination and integration	Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of	

			hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease.	
March		Annual Exam		Ch.1 to 22

PHYSICAL EDUCATION			
Months	No. of working days	Chapter / Topic	Portion to be taught
June	18	Unit I Changing Trends & Career In Physical Education	<ul style="list-style-type: none"> <input type="checkbox"/> Meaning & definition of Physical Education <input type="checkbox"/> Aims & Objectives of Physical Education <input type="checkbox"/> Changing trends in Physical Education <input type="checkbox"/> Various Physical Education Courses available in India <input type="checkbox"/> Career Options in Physical Education <input type="checkbox"/> Soft skills required for different careers
July	27	Unit II Olympic Movement Unit III Physical Fitness, Wellness & Lifestyle	<ul style="list-style-type: none"> <input type="checkbox"/> Ancient & Modern Olympics (Summer & Winter) <input type="checkbox"/> Olympic Symbols, Ideals, Objectives & Values <input type="checkbox"/> International Olympic Committee <input type="checkbox"/> Indian Olympic Association <input type="checkbox"/> Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award <input type="checkbox"/> Organisational set-up of CBSE Sports & Chacha Nehru Sports Award <input type="checkbox"/> Meaning & Importance Of Physical Fitness, Wellness & Lifestyle <input type="checkbox"/> Components of physical fitness <input type="checkbox"/> Components of Health related fitness <input type="checkbox"/> Components of wellness <input type="checkbox"/> Preventing Health Threats Through Lifestyle Change <input type="checkbox"/> Concept of Positive Lifestyle

Aug.	23	Unit IV Physical Education & Sports for CWSN (Children With Special Needs- Divyang Unit V Yoga	<ul style="list-style-type: none"> <input type="checkbox"/> Aims & objectives of Adaptive Physical Education <input type="checkbox"/> Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics ; Deaflympics) <input type="checkbox"/> Concept and need of Integrated Physical Education <input type="checkbox"/> Concept of Inclusion, its need and Implementation <input type="checkbox"/> Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & special Educator) <input type="checkbox"/> Meaning & Importance of Yoga <input type="checkbox"/> Elements of Yoga <input type="checkbox"/> Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas <input type="checkbox"/> Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana) <input type="checkbox"/> Relaxation Techniques for improving concentration – Yog-nidra

Sept.	24	Unit VI Physical Activity & Leadership Training	<ul style="list-style-type: none"> <input type="checkbox"/> Concept of Physical Activity & Inactivity <input type="checkbox"/> Leadership Qualities & Role of a Leader <input type="checkbox"/> Behaviour change stages for physical activity (Pre-contemplation ; Contemplation; Planning; Active; Maintenance) <input type="checkbox"/> Creating leaders through Physical Education <input type="checkbox"/> Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Para Gliding) <input type="checkbox"/> Safety measures during physical activity and adventure sports
October	12	Unit VII Test, Measurement & Evaluation Unit VIII Fundamentals Of Anatomy & Physiology	<ul style="list-style-type: none"> <input type="checkbox"/> Define Test, Measurement & Evaluation <input type="checkbox"/> Importance Of Test, Measurement & Evaluation In Sports <input type="checkbox"/> Calculation Of BMI & Waist - Hip Ratio <input type="checkbox"/> Somato Types (Endomorphy, Mesomorphy & Ectomorphy) <input type="checkbox"/> Procedures Of Anthropometric Measurement – Height, Weight, Arm & Leg Length <input type="checkbox"/> Define Anatomy, Physiology & Its Importance <input type="checkbox"/> Function Of Skeleton System, Classification of Bones & Types of Joints <input type="checkbox"/> Properties of Muscles

			<ul style="list-style-type: none"> <input type="checkbox"/> Function & Structure Of Muscles <input type="checkbox"/> Function & Structure Of Respiratory System, Mechanism of Respiration <input type="checkbox"/> Structure Of Heart & Introduction to Circulatory System <input type="checkbox"/> Oxygen debt, second-wind
Nov.	26	Unit IX Kinesiology, Biomechanics & Sports	<ul style="list-style-type: none"> <input type="checkbox"/> Meaning & Importance of Kinesiology & Biomechanics in Phy. Edu. & Sports <input type="checkbox"/> Concept of Musculoskeletal System <input type="checkbox"/> Joints – Articulation of Bones (Neck, Shoulder, Elbow, Hip and Knees) <input type="checkbox"/> Major Muscles around the Joints (Neck, Shoulder, Elbow, Hip and Knees) <input type="checkbox"/> Levers & Its Types and its application in sports <input type="checkbox"/> Equilibrium – Dynamic & Static And Centre of Gravity and its application in sports
Dec.	23	Unit X Psychology & Sports Unit XI Training In Sports	<ul style="list-style-type: none"> <input type="checkbox"/> Definition & Importance of Psychology in Phy. Edu. & Sports <input type="checkbox"/> Define & Differentiate Between Growth & Development <input type="checkbox"/> Developmental Characteristics At Different Stage of Development <input type="checkbox"/> Adolescent Problems & Their Management <input type="checkbox"/> Define Learning, Laws Of Learning (Law of Readiness; Law of Effect & Law of Exercise) & Transfer of Learning <input type="checkbox"/> Emotion: Concept, Type & Controlling of emotion <input type="checkbox"/> Meaning & Concept of Sports

			<p>Training</p> <ul style="list-style-type: none"> <input type="checkbox"/> Principles of Sports Training <input type="checkbox"/> Warming up & limbering down <input type="checkbox"/> Load, Symptoms of Over-load, Adaptation & Recovery <input type="checkbox"/> Skill, Technique & Style <input type="checkbox"/> Role of Free-play in the development of Motor Component
Jan.	23	Unit XII Doping	<ul style="list-style-type: none"> <input type="checkbox"/> Concept & classification of doping <input type="checkbox"/> Prohibited Substances & Methods <input type="checkbox"/> Athletes Responsibilities <input type="checkbox"/> Side Effects Of Prohibited Substances <input type="checkbox"/> Ergogenic aids & doping in sports <input type="checkbox"/> Doping control procedure
Feb.	24	REVISION	
March	23	REVISION	

ज्ञानोदय सीनियर सेकेण्डरीस्कूल,खुरई
कक्षा - ग्यारहवीं
पाठ्यक्रम-विभाजन

माह	कार्य दिवस	आरोह भाग -1 {गद्य खण्ड}	आरोह भाग -1 {पद्य खण्ड}	पूरक पुस्तक वितान भाग -2	अपठित बोध एवं रचनात्मक लेखन
जून	18	.नमक का दरोगा-प्रेमचंद	हम तो एक-एक करि जाना संतो देखत जग बौराना – कबीर		कार्यालयी पत्र की पद्धति और नमूने अपठित बोध
जुलाई	27	1.मियाँ नसीरुद्दीन -कृष्णा सोबती 2. 3. 4.	.(क)मेरे तो गिरधर गोपाल,दूसरो न कोई (ख) पग घुंघरू बांधि मीरा नाची – मीरा बाई	भारतीय गायिकाओं में बेजोड़ लता मंगेशकर – कुमार गन्धर्व	जनसंचार माध्यम और पत्रकारिता के विविध आयाम 5.समाचार लेखन
अगस्त	23	विदाई संभाषण- बालमुकंद गुप्त गलत लोहा- शेखर जोशी	वे आँखे- सुमित्रानंदन पंत	राजस्थान की रजत बूँदें- अनुपम मिश्र	रोजगार सम्बन्धी पत्र अपठित बोध- अपठित गद्यांश / अपठित पद्यांश .निबंध- समसामयिक

सितंबर	24	स्पीती में बारिश- कृष्णनाथ	घर की याद- भवानी प्रसाद मिश्र	राजस्थान की रजत बूँदें- अनुपम मिश्र	विभिन्न विभागों(पानी,बिजली,टेलीफ़ोन,संपा दक,परिवहन आदि)से सम्बंधित समस्याओं के बारे में अधिकारियों को लिखे जाने वाले पत्रों के नमूने साहित्यिक विषयों पर निबंध
अक्टू म्बर	14	रजनी- मन्नु भंडारी	चंपा काले-काले अक्षर नहीं चीन्हती-त्रिलोचन		जनसंचार,संचार माध्यम(प्रिंट माध्यम)
नम्बर	26	जामुन का पेड़- कृशनचंदर	गज़ल –दुष्यन्त कुमार (क)हे भूख मत मचल (ख)हे मेरे जूही के फूल – अक्क महादेवी	आलो आधारी- बेबी हालदार	
दिसंबर	24	भारत माता- नेहरु		2.आलो आधा री – बेबी हालदार	गैर पारम्परिक एवम् अप्रत्याशित विषयों पर निबंध के नमूने फीचर लेखन
जनवरी	23		सबसे खतरनाक- पाश 3.आओ मिलकर बचाएँ- निमर्ला पुतुल		5.सास्कृतिक/नैतिक/विज्ञान सम्बन्धी निबंध 6.भाषण,उद्घोषित,स्वागत भाषण,संगोष्ठी,संचालन आदि के लिए प्रभावी सम्प्रेषण हेतु शब्दावली
फरवरी	24	पुनरावृत्ति			

Class- XI (Physics)				
Months	No. of working days	Chapter / Topic	Portion to be taught	Portion for unit test
April				
June	18	Chapter-1: Physical World Chapter-2: Units and Measurements	<p>Chapter-1: Physical World Physics-scope and excitement; nature of physical laws; Physics, technology and society.</p> <p>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.</p> <p>Dimensions of physical quantities, dimensional analysis and its applications.</p>	TU-1
July	27	Chapter-3: Motion in a Straight Line Chapter-4: Motion in a Plane	<p>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.</p> <p>Relations for uniformly accelerated motion (graphical treatment). 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.</p> <p>Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.</p>	

Aug.	23	Chapter–5: Laws of Motion Chapter–6: Work, Energy and Power	<p style="text-align: center;">Chapter–5: Laws of Motion</p> <p>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.</p> <p>Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.</p> <p>Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).</p> <p style="text-align: center;">Chapter–6: Work, Energy and Power</p> <p>Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.</p> <p>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.</p>	UT-2
Sept.	24	Chapter–7: System of Particles and Rotational Motion	<p style="text-align: center;">Chapter–7: System of Particles and Rotational Motion</p> <p>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.</p> <p>Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.</p> <p>Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions.</p> <p>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.</p>	
October	12	Chapter–8: Gravitation	<p style="text-align: center;">Chapter–8: Gravitation</p> <p>Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth.</p> <p>Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.</p>	

Nov.	26	<p>Chapter-9: Mechanical Properties of Solids</p> <p>Chapter-10: Mechanical Properties of Fluids</p>	<p>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.</p> <p>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.</p>	UT-3
Dec.	23	Chapter-11: Thermal Properties of Matter	<p>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.</p>	

Jan.	23	<p>Chapter-12: Thermodynamics</p> <p>Chapter-13: Kinetic Theory</p> <p>Chapter-14: Oscillations and Waves</p> <p>Chapter-15: RAY OPTICS</p>	<p>Chapter-12: Thermodynamics</p> <p>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.</p> <p>Chapter-13: Kinetic Theory</p> <p>Equation of state of a perfect gas, work done in compressing a gas. Kinetic theory of gases - assumptions, concept 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.</p> <p>Chapter-14: Oscillations and Waves</p> <p>Periodic motion - time period, frequency, displacement as a function of time, periodic functions.</p> <p>Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring-restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period.</p> <p>Free, forced and damped oscillations (qualitative ideas only), resonance.</p> <p>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. Ray Optics: Reflection of light, spherical mirrors, mirror formula, refraction of light, total internal reflection and its applications, optical fibres, refraction at spherical</p>	UT-4
Feb.	23	Chapter-1 to Chapter-15	Revision	

CLASS : XI (HORNBILL & SNAPSHOTS)

MONTH	DETAILED SYLLABUS
June	Hornbill: L-1 Portrait of A Lady, P-1 A Photograph Writing skills – Classified advertisement Grammar: Tense, Subject – Verb agreement
July	Hornbill: L-2 We 're Not Afraid to Die, L-3 Discovering Tut: the Saga Continues, Snapshots: L-1 The Summer of a Beautiful White Horse, L-2 The Address Grammar: Active Passive, Error Correction Writing skills – Display Advertisement / Poster making, Notice Writing
August	Hornbill: L-4 Landscape of the Soul, P-2 The Laburnum Top Snapshots: L-3 Ranga's Marriage, L-4 Albert Einstein at school Grammar: Determiners, Prepositions, Clauses, Error Correction Writing Skills: Letter to Editor, Office Letter
September	Hornbill: P-3 Voice of the Rain, L-5 The Ailing Planet: the Green Movement's Role, L-6 The Browning Version Snapshots: L-5 Mother's Day, L-6 Ghat of the only world Grammar: Direct and Indirect Speech Writing Skills: advertisement, Job Application.
October	Hornbill: P-4 Childhood, L-7 The adventure Snapshots: L-7 Birth Grammar: Degree, Missing Words, Rearranging words Writing Skills: Business Letter (Placing order & Reply)
November	Hornbill: L-8 Silk Road, P-5 Father to Son Snapshots: L-8 The Tale of Melon City Grammar: Error Correction, Missing Words, Rearranging Words Writing Skills: Article, Report Writing
December	Hornbill: Revision- Discovering Tut, Landscape of the Soul, Browning Version Snapshots: Revision – Mother's Day, The Ghat of the Only World Grammar: Missing words, Error Correction, Rearranging Words Reading: Note Making Writing Skills: Debate and Speech
January 2020	Hornbill: Revision and Doubt clearance Snapshots: Revision and Doubt clearance Grammar: Practice Writing Skills: Practice
February 2020	Hornbill: Revision and Doubt clearance Snapshots: Revision and Doubt clearance Grammar: Practice Writing Skills: Practice

(SUBJECT TEACHER)

Class- 11th (History)

Month	No. of days	CHAPTER-No	Portion to be taught	CHAPTER / Portion for UT
March and April	16			
June	18	Theme 1- From the beginning of time Theme 2- writing and city life	Evolution of human beings, fossils, primates, hunter and gatherer. Earliest civilisation i.e mesopotamia, life and culture in mesopotamia, time line from 7000-6000 BCE	THEME 1 AND THEME 2
July	27	Theme 3 - an empire across three continents. Theme 4- The central islamic land.	Time line of roman empire, geographical, cultural, political & economic condition in roman empire. Beginning of islamic religion from 6 C.E. Life and journey of prophet muhammad and his teachings of islam, caliphate of islamic land, crusades, sufism, teachings of quran.	THEME 3 , THEME 4
August	23	Theme 5- Nomadic empire	Nomadic empires, history of genghis khan, expansion of mongol empire. Ideology of genghis khan, mongol dynasty and their ruling areas	THEME 5
sep	24	Theme 6- The three orders	The three orders, feudalism, hierarchy system in france, england, work of different orders. Monks and their role in society, condition of peasants in society, modernisation in european countries. Cathedrals towns, structure and design of church.	THEME 6
Oct.	12	Theme 7- Changing cultural tradition	changing cultural tradition, renaissance period during 14 to 17 century, revival in architecture, invention of printing technology, concepts of science generated. Ideology of martin-luther king on christianity.	THEME 7

Nov	26	Theme 8- confrontation of cultures Theme 9- The industrial revolution	communities of caribbean islands & brazil, civilisation of america i.e- incas, maya & the Aztecs, voyages by different europeans towards america, slave trade. Revolutionary changes in industries like coal& iron, weaving etc, steam power and invention of trains, canals&railways, condition of women during industrial revolution	THEME 8 THEME 9
Dec	23	Theme 10- Displacing indigenous people	European imperialism in america, native people of north america and their movement. History of australia and colonies set up by european.	Theme 10
Jan	23	Theme 11- paths to modernisation	History of japan and china. Political system in japan and china, communist party of china, story of taiwan.	Theme 11

GYANODAYA SR. SEC SCHOOL KHURAL, SAGAR (M.P.)
SYLLABUS- GEOGRAPHY
CLASS- 11

SR NO	MONTH	NO. OF WORKING DAYS	CHAPTER & TOPICS	PORTION TO BE TOUGHT	SYLLABUS FOR EXAM
1	JUNE	18	CH-1 GEOGRAPHY AS A DISCIPLINE	Geography as a discipline;geography as an integrating discipline;physical geography and natural sciences; geography and social sciences;branches of geography; branches of geography (based on systematic approach) 1.physical geography 2.human geography 3.biogeography; branches of geography based on regional approach; physical geography and its importance; what is geography?	UNIT TEST
2	JULY	27	CH- 2 THE ORIGIN AND EVOLUTION OF THE EARTH CH- 3 INTERIOR OF THE EARTH CH-4 DISTRIBUTION OF OCEANS AND CONTINENTS	Ch-2 the origin and evolution of the earth; early theories; origin of the earth; modern theories origin of the universe; the star formation; formation of planets; our solar system; the moon; evolution of earth; evolution of lithosphere, atmosphere, hydrosphere;origion of life. Ch-3 interior of the earth; sources of information; direct source, indirect source;earthquake, earthquake waves; types of earthquake; effect of earthquake; structure of earth: the core, the mantle, the crust; volcanoesand volcanic landforms; types of volcanos; intrusive forms. Ch-4 distribution of oceans and continents; continental drift; evidence in supporting of the continental drift; force for drifting post-drift studies; ocean floor configuration; distribution of earthquake and volcanoes; concept of sea floor: spreading plate tectonic: divergentboundries, convergent boundries, transform boundries;rate of plate movement: force for the plate movement; movement of the indian plate.	

3	AUGUST	23	<p>CH-5 MINERALS AND ROCKS</p> <p>CH-6 GEOMORPHIC PROCESSES</p>	<p>Ch-5 minerals and rocks; physical characteristics; some major mineral & their characteristics; metallic & non-metallic mineral; rocks; types of rocks; rocks cycle.</p> <p>Ch-6 geomorphic processes; endogenic processes; diastrophism; volcanism; exogenic processes; weathering; chemical weathering processes; physical weathering processes; biological activity and weathering; special effects of weathering; significance of weathering; mass movements; slow movements; rapid movements; landslides; erosion and deposition; soil formation: soil and soil contents; process of soil formation; soil-forming factors.</p>	
4	SEPTEMBER	24	<p>CH-7 LANDFORMS AND THEIR EVOLUTION.</p> <p>CH-8 COMPOSITION AND STRUCTURE OF ATMOSPHERE</p> <p>CH-9 SOLAR RADIATION, HEAT BALANCE AND TEMPERATURE</p>	<p>Ch-7 landforms and their evolution; running water; erosional landforms: incised or entrenched meanders; potholes and plunge pools; valleys; depositional landforms; meanders; floodplains, natural levees and point bars; alluvial fans; deltas; braided channels; groundwater; erosional landforms; pools, sinkholes, lapies and limestone pavement; depositional landforms; stalactites, stalagmites and pillars; glaciers; erosional landforms; horns and serrated ridges; depositional landforms; moraines; waves and currents; high rocky coasts;</p> <p>ch-8 composition of the atmosphere; gases; water vapour; dust particles: structure of atmosphere; element of weather & climate.</p> <p>Ch-9 solar radiation, heat balance and temperature; solar radiation; variability of insolation at the surface of the earth; heating and cooling of atmosphere; terrestrial radiation; heat budget of the planet earth; temperature; inversion of temperature.</p>	

5	OCTOBER	12	<p>CH-10 ATMOSPHERIC CIRCULATION AND WEATHER SYSTEMS</p> <p>CH-11 WATER IN THE ATMOSPHERE</p> <p>CH-12 WORLD CLIMATE AND CLIMATE CHANGE</p>	<p>CH-10 Atmospheric pressure;Vertical Variation of Pressure;Horizontal Distribution of PressureWorld Distribution of Sea Level Pressure;Forces Affecting the Velocity and Direction of Wind;General circulation of the atmosphere;General Atmospheric Circulation and its Effects on Oceans.</p> <p>CH-11 Water in the atmosphere;Evaporation and condensation;Dew; Frost;Fog& Mist; Cloud;Precipitation; Types of Rainfall;World Distribution of Rainfall.</p> <p>CH-12 World climate and climate change;Koeppen's scheme of classification of climate;Climate change;Climate in the recent past;Causes of Climate Change;Global Warming;</p>	
6	NOV	26	<p>CH-13 WATER (OCEANS)</p> <p>CH-14 MOVEMENTS OF OCEAN WATER</p> <p>CH-15 LIFE ON THE EARTH</p>	<p>CH-13 Water (oceans);Hydrological cycle;Relief of the ocean floor;Divisions of the Ocean Floors;Minor Relief Features;Temperature of ocean waters;Factors Affecting Temperature Distribution;Horizontal and Vertical Distribution of Temperature;Salinity of ocean waters;Horizontal distribution of salinity;Vertical Distribution of Salinit.</p> <p>CH-14 Movements of ocean water;Waves; Tides;Types of tides:Importance of Tides;Ocean current; Types of Ocean Currents; Characteristics of Ocean Currents.</p> <p>CH-15 Life on the earth;Ecology;Types of Ecosystems;Structure and Functions of Ecosystems;Types of Biomes;Biogeochemical Cycles;Ecological Balance.</p>	

7	DEC	23	<p>CH- 16 BIODIVERSITY AND CONSERVATION CH-1 INDIA CH-2 STRUCTURE AND PHYSIOGRAPHY CH-3 DRAINAGE SYSTEM</p>	<p>CH-16 Biodiversity and conservation;Genetic Diversity;Species Diversity;Ecosystem Diversity;Importance of Biodiversity; Ecological Role of Biodiversity;Economic Role of Biodiversity; Scientific Role of Biodiversity;Loss of biodiversity E ndangered Species;Vulnerable Species;Conservation of biodiversity. CH-1 India – location;Size;India and its neighbours. CH-2 Structure and physiography;The peninsular block;The himalayas and other peninsular mountains;Indo-ganga-brahmaputra plain; physiography; the north and northeastern mountains; the northern plains; the peninsular plateau; the indian desert; the coastal plains; the islands. CH-3 Drainage system; important drainage patterns; drainage systems of india; the himalayan drainage; evolution of the himalayan drainage; the river systems of the himalayan drainage; the indus system;the ganga system; the brahmaputra system; the peninsular drainage system; the evolution of peninsular drainage system; river systems of the peninsular drainage; smaller rivers flowing towards the west; small rivers flowing towards the east; river regimes; extent of usability of river water.</p>	
8	JAN	23	<p>CH- 4 CLIMATE CH-5 NATURAL VEGETATION</p>	<p>Climate; unity and diversity in the monsoon climate; factors determining the climate of india; factors related to location and relief; factors related to air pressure and wind; mechanism of weather in the winter seasonMechanism of weather in the summer season; the nature of indian monsoononset of the monsoon; rain-bearing systems and rainfall distribution; ei-nino and the indian monsoon; break in the monsoon; the rhythm of seasons; the cold weather season; understanding the monsoon; the hot weather season; the southwest monsoon season; monsoon winds of the arabian sea; monsoon winds of the bay of bengal; chseason of retreating monsoon;characteristics of monsoonal rainfall; traditional indian seasons; distribution of rainfall; variability of rainfall; climatic regions of india; monsoons and the economic life in india; global warming; CH-5 Natural vegetation; types of forests (i) tropical evergreen and semi evergreen forests (ii) tropical deciduous forests (iii) tropical thorn forests (iv) montane forests (v) littoral and swamp forests; forest cover in india; forest conservation; farm forestry; wildlife; wildlife conservation in india; biosphere reserves; nilgiri biosphere reserve; nanda devi biosphere reserve; sunderbans biosphere</p>	

9	FEB	24	CH-6 SOILS CH-7 NATURAL HAZARDS AND DISASTERS	CH- 6 Soils; Classification of soils; (i) alluvial soils (ii) black soils (iii) red and yellow soils (iv) laterite soils (v) arid soils (vi) saline soils (vii) peaty soils (viii) forest soils; soil degradation; soil erosion; soil conservation. CH-7 Natural hazards and disasters; what is a disaster?; classification of natural disasters; natural disasters and hazards in india; earthquakes; tsunami; tropical cyclone; floods; droughts; landslides; disaster management; disaster management bill, 2005; conclusion;	
10	MARCH	23			
11	APRIAL				
12	MARCH				

SYLLABUS OF CLASS XI (ACCOUNTANCY)

Months	No. of working days	Chapter / Topic	Portion to be taught	Portion for unit test
JUNE	18	Introduction to Accounting	Concept, objectives, advantage and limitations, types of accounting informations users of accounting information and their needs and accounting terms,	
JULY	27	Theory base of accounting, Recording of Transaction-I	Fundamental accounting assumptions, accounting principles, Double entry system of accounting, Basis of accounting, Analysis of transactions using accounting equation	
AUGUST	23	Recording of Transaction-II	Rules of debit and credit, origin of transactions- source document and supporting vouchers, format and recording journals, cash book single and double column, petty cash book, other books, purchase, sales, purchase return and sales return, ledger	
SEPT.	24	Bank Reconciliation statement, ledger and trial balance, rectification of error	Concept, need, preparation of BRS, Objectives and preparation, Types of errors, detection and rectification of errors, preparation of suspense account,	
OCT.	12	Depreciation, provision and reserve	. concept, need and factor affecting depreciation, method of computation of depreciation -SLM and WDV accounting treatment of depreciation provision and reserve	
NOV.	26	Depreciation continue, Bill of exchange, Financial statement-I	Problems of depreciation, Bill of exchange and promissory note, definition, features, parties, specimen and distinction, terms 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 bill, accounting treatment of bill transactions.	
DEC.	23	Financial statement-I Financial statement- II	Financial statement objectives and importance trading P/L a/c, gross profit, operating profit, net profit. Balance sheet- Need and grouping, adjustments in preparing financial statements preparation of trading, P/L, B/S	

JAN.	23	.Accounting for incomplete records Computers in accounting	Incomplete records : uses and Limitations; Ascertainment of profit by using statement of affair method, Introduction to operating software, utility software and application software, AIS as a part of MIS, automation of accounting process, stages in automation, kinds of accounting software.	

SYLLABUS OF CLASS XI (ECONOMICS)

Months	No. of working days	Chapter / Topic	Portion to be taught	Portion for unit test
JUNE	18	Introduction Statistics for Economics Collection, Organisation and Presentation of data	What is Economics? Meaning, scope, functions and importance of statistics in Economics Collection of data - sources of data - primary and secondary; how basic data is collected, with concepts of Sampling; Sampling and Non-Sampling errors; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation.	
JULY	27	Collection, Organisation and Presentation of data Statistical Tools and Interpretation	Organisation of Data: Meaning and types of variables; Frequency Distribution. Presentation of Data: 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). Measures of Central Tendency- mean (simple and weighted), median and mode	
AUGUST	23	Statistical Tools and Interpretation	Measures of Dispersion - absolute dispersion (range, quartile deviation, mean deviation and standard deviation); relative dispersion (co-efficient of range, co-efficient of quartile-deviation, co-efficient of mean deviation, co-efficient of variation); Lorenz Curve: Meaning, construction and its application. Correlation – meaning and properties, scatter diagram; Measures of correlation – Karl Pearson's method (two variables ungrouped data) Spearman's rank correlation.	
SEPT.	24	Statistical Tools and Interpretation . Introduction Microeconomics	Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index and index of industrial production, uses of index numbers; Inflation and index numbers. Meaning of microeconomics and macroeconomics; positive and normative economics; What is an economy? Central problems of an economy: what, how and for whom to produce; concepts of production possibility frontier and opportunity cost.	

OCT.	12	Demand	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 – percentage-change method.	
NOV.	26	Consumer's Equilibrium and Demand	Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis. Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.	
DEC.	23	Producer Behaviour and Supply	Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product. Returns to a Factor Cost: 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 relationships. Revenue - total, average and marginal revenue - meaning and their relationship. Producer's equilibrium-meaning and its conditions in terms of marginal revenue marginal cost. 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 - percentage-change method.	
JAN.	23	Forms of Market and Price Determination under Perfect Competition with simple applications.	Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply. Other Market Forms - monopoly, monopolistic competition, oligopoly - their meaning and features. Simple Applications of Demand and Supply: Price ceiling, price floor.	