Year Planner 2009-10

Subject: Biology Class – XI

Week	Date	Days	Content
I	July– 2009 01-4	5	Scope & Importance of Biology – An Introductory Class UNIT- I DIVERSITY IN THE LIVING WORLD Chapter -1 : The Living World What is living, characteristic of the living being, diversity in the living being, taxonomic categories, species, genus, family, order, class, phylum, kingdom, taxonomical zoological park & key.
II	7-10	4	Chapter 2 – Biological Classifications : Five kingdom classification, major groups and principles of classification within each kingdom. Systematic and binomial system of nomenclature. Kingdom Monera – Archabacteria, Eubacteria.
III	13-18	6	Chapter – 2 : Contd – Kingdom Protista :- Chrysophytes, Dinoflagellates, euglenoids, Slime mould, protosomes. Kingdom – Fungi – Rhycomycetes, Ascomycetes, Basidiomycetes, Deuteromycetes Kingdom Plantae, Kingdom Animalia, Viruses, Viroids & Lideiens.
IV	20-25	6	Chapter -3 – Plant Kingdom Topic : Algae, Chlorophyceae, rhodophyceae, bryophytes, liverwords, mosses; pteridophytes, Gymnosperms, Angiosperms, Plant Life Cycle & Alternation of Generation.

V I	27-30 August 2009 1 3-7	5	<u>Chapter -4 : Animal Kingdom</u> Topic – Basis of Classification, Level of Organisation; Symmetry, Diploblastic & Triploblastic Organisation, Coelom, Segmentation, notochlord; classification of Animal – Phylum – Porifera, Phylum Coelenterata, Phylum Ctenophora Phylums-Platyhelminthes; Aschelminthes, Annelida, Arthropoda, Mollusca, Echinodermata (tunicate), Cephalochardate, Vertebrata, Class-Cyclostomata, Choridrichthyes, Class-Osteichthyes, Cl-Amphibian, Cl-Aves, Call Mammalia.
II	August – 2009 10-13	4	Unit – II Structure Organisations in Animals and Plant <u>Chapter -5 : Morphology of Flowering Plant</u> Topic : The root- regions of roots, modification of root, the stem-modification of stem, The leaf : Venation, types of leaves, phyllotaxy, modification of leaves, The inflorescenea; The flower - parts of a flower, the fruit.
III	17-22	6	Chapter -5- Contd – The seed structure of dicotyledonous seed, structure of monocotyledonous see; semi-technical description of typical flowering plants; Floral Formula, Floral diagram, Description of some important families fabaceae, Solonacea, Lileaceae, <u>Chapter -6 : Anatomy of Flowering Plants :</u> The tissues, complex and simple tissues. The tissue types – Meristmatic tissue & permanent Tissues.
IV	24-29	6	Chapter – 6 – Contd…. – The tissue systems : Epidermal tissue, the ground tissue system, Anatomy of dicotyledeonous and monotyle donous stem. Dorsiventral Leaf, Isobilateral leaf

			(Monocotylelonous) Secondary Growth, Vascular Cambium, Cork Cambium, Sec Growth in Roots.
I	September 2009 1-3, 5	4	Chapter -7 : Structural Organization in Animals : Animal tissues : - Epithelial, Connective, Muscular, and Neutral Tissues, Organ & Organ Systems; Earthworm – Morphology Anatomy ; Cockroachs & Frog : - Morphology & Anatomy.
I	4	1	1st CCEP Examination
II	7-9 10-18	3	Revision of 1st Term Syllabus. 1st Terminal Examinations
III	19-28	10	Autum Break
IV I	29 October 2009 1,3		UNIT – III : Structure and Function Chapter -8 : The Unit of Life, An Overview of Cell,Proaryotic Cell and modifications.
II	5-9	5	Chapter -8 – Contd : Eukaryotic Cells, membrance, cell wall, Endoplasmic Reticulum, Golgi app, lysosomes, vasuoles, centrosome, centrioles, nuclear microbodies. Chapter 9 – Biomolecules – How to analyse chem. Composition Micro & Macromolecules, Polysachharides, Proteins & Concepts of metabolism, Enzymes type, Property & Functions.
III	12-16	5	Chapter – 10 : Cell Cycle & Division Phases of cell cycle – Interphase, Metaphase, anaphase, Telophase, Cytokinesis, significance of mitosis and meiosis, Meiosis I & Meiosis II. Chapter – 11 : Transportation in Plants Means of Transport – Diffusion, facilitated diffusion, Water relation –water potential, osmosis, plasmolysis & Imbibiltion.

IV	19-24		Chapter -11 : Contd … : Absoption of Water, Symplast, Apoplast, Transport of water in plants; water movement in plant; uptake & transport of mineral nutrients; translocation of mineral ions, phyloem transport-flow from source to sink; The pressure flow or mass flow, hypothesis.
V	26-30	5	Chapter -12 : Mineral Nutrition Essential Mineral element, types –micro & Macronutrients and their role, Deficiency symptoms of Essential elements, Toxicity of Nutrients, Metabolism of Nitrogen ; Nitrogen Cycle, biological N2 fixation, Nodle formation.
I	November 2009 2 3-7	 5	 G. N. B. Holiday Chapter 13 : Photosnthesis in higher plants Site of Photosynthesis, Pigmen ts involved in photosynthesis, Steps of Photosynthesis, Light Reaction (Photolysis of Water), The electron transport, cyclic & non-cyclic photo-phosphorylation ; Role of ATP & NADPH ; Carbon-di-oxide Fixation.
II	9-13	5	Clavin Cycle (C_3 Cycle) ; Hatch-slack pathway (C_4 Cycle), Factor affecting photosynthesis – light, CO_2 Concentration, Temperature & Water. Chapter 14 : Respiration in Plants : Glycolysis Fermentation, TCA Cycle
III	16-21	6	Chapter 14 – Contd : Electron Transport System (ETS) & Oxidat ive Phoshorylation, The respiratory balance sheet; Amphibolic pathway, Respiratory Quotient.
IV	23-30	6	28.11.09 Holiday ; 30.11.09 Last Working Day Chapter -15 : Plant Growth & Development : Def of Growth, Measurement of Growth, Phases of Growth, Growth Rate, Differntiation &

			Redifferentiation, Development of Plant Growth regulators – Auxin, Gibberallins, cytokinin ethylene, ABA, Photoperiod, Venalisation.
	December 2009 1-10, 14	10	Revision of 2nd Terminal Examination:
	11.12.09		Second CCEP Examination
	15.12.09 to 22.12.09		Second Terminal Examination
	23	01	Discussion of Question Paper.
	26-31		Winter Break
III	11 14 15-22		IInd CCEP Examination Revision IInd Terminal Examination
IV	23		Distribution and Discussion of Answer Sheets
	26-31		Winter Break
	January 2010		
I	1-2	2	Unit V – Human Pysiology <u>Chapter 16- Digestion and Absorption : -</u> Digestive System, Alimentary Canal & its parts. Types of teeth, Dental formula, Digestion Process & products.
	4-9	5	Chapter 16 – Contd – Disorder of digestive systems Jaundice, Vomiting, Constipation, Diarrhea.
II	11-16	6	<u>Chapter -17 : Breathing & Exchange of Gases :</u> Respiratory Organs, Respiratory System, Mechanism of Breathing, Respiratory Volume & Capacities Exchanges of gases, Transport of O_2 + CO_2, Disorders of respiratory system.

III	18-23	6	Chapter 18- : Body Fluids and Circulation : Blood – Its composition, Blood Groups, Coagulation of Blood; Lymph, Circulation pathways Structure of Human Heart, Cardiac Cycle, ECG, Regulation of Cardiac Activity, Disorders.
IV	25-30	6	Chapter 19 : Excretory Products & their Elimination Human Excretory System, Urine Formation, Function of the tubules, mechanism of concentration of filtrate, Regulation of Kidney function, Role of other organs in excretion, Disorders of Excretion.
I	February 2010 1-6	6	Chapter 20 : Locomotion & Movement : Types of movement, Muscles, Structure of Sacromere, Mechanism of Contraction of Muscles, Skeletal System of Human, Bone, Joints, Disorders of Muscular & Skelatal System.
II	8-13	6	Chapter 21- Neural Control & Coordination Neural System of Human (CNS ; PNS) Autonomic Neural System, Neuron as functional unit of Neural System ; Conduction of Nerve Impulse & Its transmission, Central Nervous system -parst; Reflexction, Sensory Reception & processing The eye-mechanism of vision, The ear -mechanism of Hearing.

III	15-20	6	<u>Chapter 22 – Chemical Co-ordination & Integration</u> Endocrine gland & hormones, human endocrine system – The Hypothalamus, the pilutary gland, pineal gland, Throid, parthyroid, Thymus, Adrenal, Pancreas, Mechanism of hormonal action & effects of their less or more secretions
IV	22-27	6	Revision & practical Examination
	March 2009 1-16	16	Common Annual Examination

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