KLE ENGLISH MEDIUM SCHOOL

JULE SOLAPUR

SYLLABUS SPLIT 2022 - 2023

XI- BIOLOGY

SR. NO	MONTH	UNIT / SUBUNIT	VALUES	ACTIVITY/PROJECT	EXAM
1	JULY(05 Periods)	Unit-I Diversity of Living Organisms			
	,	Chapter-1: The Living World		1	
		Biodiversity; Need for classification; three domains of life			
		taxonomy and systematics; concept of species and			
		taxonomical hierarchy,binomial nomenclature	To develop scientific skills,		
			disciplinary value		
2	JULY(05 Periods))	Chapter-2: Biological Classification			
		Five kingdom classification; Salient features and classification of	d		
		Monera Protista and Fungi into major groups;Lichens,Viruses and Viroid		-	
3	JULY(05 Periods))	Chapter-3: Plant Kingdom	To develop scientific skills, disciplinary value	-	
	, ,,	Classification of plants into major groups			
		Salient and distinguishing features and a few examples of Algae,			
		Bryophyta, Pteridophyta, Gymnospermae			
1	JULY(05 Periods))	Chapter-4: Animal Kingdom			
	00L1 (00 1 C110d3))	Salient features and classification of animals, non-chordates up to			
		phyla level and chordates up			
5	AUGUST(08 Periods)	Unit-II Structural Organization in Animals and Plant			
		Chapter-5: Morphology of Flowering Plants			
		Morphology of different parts of flowering plants: root, stem, leaf,			
		inflorescence, flower, fruit and seed. Description of family Solanaceae		LAB PRACTICALS/	
	AUGUST(04 Periods)	Chanter 6: Anatomy of Flowering Plants	developing ACTIVITIES & PROJECTS AS PRESCRIBED BY CBSE BOARD	I	
О	AUGUST (04 PEHOUS)	Chapter-6: Anatomy of Flowering Plants		PRESCRIBED BY	
		Anatomy and functions of tissue systems in dicots and monocots			
7	AUGUST(08 Periods)	Chapter-7: Structural Organisation in Animals			
	·	Morphology, Anatomy and functions of different systems			

		(digestive, circulatory,respiratory, nervous and reproductive) of frog.			
	SEDTEMBED/07 Dorig	Alleit III Cally Observations and From affine			
3	SEPTEMBER(UT PENC	Unit-III Cell: Structure and Function	-		PERIODIC TEST :
		Chapter-8: Cell-The Unit of Life		LAB PRACTICALS/ ACTIVITIES &PROJECTS AS PRESCRIBED BY CBSE BOARD	
		Cell theory and cell as the basic unit of life,	Appericate the body organization of both plants & animals		
		structure of prokaryotic and eukaryotic cells;			
		Plant cell and animal cell; cell envelope; cell membrane, cell wall;			
		cell organelles - structure and function; endomembrane system,			
		endoplasmic reticulum,golgi bodies, lysosomes, vacuoles,			
		ribosomes, plastids,microbodies; cytoskeleton, cilia, flagella,centrioles			
		(ultrastructure and function); nucleus.			
	SEPTEMBER(09 Perio	Chapter-9: Biomolecules		COSE BUARD	
		Chemical constituents of living cells: biomolecules,			
		structure and function of proteins, carbohydrates, lipids, nucleic acids;	appreciate that		
		Enzyme - types, properties, enzyme action	the most complex		
			biological		
10	SEPTEMBER(09 Perio	Chapter-10: Cell Cycle and Cell Division	phenomena		PERIODIC TEST 2
		Cell cycle, mitosis, meiosis and their significance			TEMODIC TEST 2
	OCTOBER	DEVICION			
11	OCTOBER	REVISION			
12	NOVERBER(10 Period	OVERBER(10 Periods Unit-IV Plant Physiology			
	·	Chapter-13: Photosynthesis in Higher Plants		LAB PRACTICALS/	
		Photosynthesis as a means of autotrophic nutrition; site of photosynthesis			
		pigments involved in photosynthesis, photochemical and biosynthetic			
		phases of photosynthesis; cyclic and non-cyclic photophosphorylation;			
		chemiosmotic hypothesis; photorespiration; C3 and			
		factors affecting photosynthesis.			
			1		
13	NOVERBER(10 Period Chapter-14: Respiration in Plants		appreciate that	ACTIVITIES	
		Exchange of gases; cellular respiration - glycolysis, fermentation	biological	&PROJECTS AS PRESCRIBED BY CBSE BOARD	
		TCA cycle and electron transport system (aerobic); energy relations			
		number of ATP molecules generated; amphibolic pathways			
		respiratory quotient			
		 			

14	NOVERBER(10 Period	Chapter-15: Plant - Growth and Development			
		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			
15	DECEMBER(08 Period	Unit-V Human Physiology			
		Chapter-17: Breathing and Exchange of Gases			
		Respiratory system in humans; mechanism of breathing and its regulation	developing	I	
		in humans exchange of gases, transport of gases and regulation of	respect for other		
		respiration, respiratory volume; disorders related to respiration	living beings		
		asthma, emphysema, occupational respiratory disorders			
16	DECEMBER(08 Period	Chapter-18: Body Fluids and Circulation	To develop		
	,	Composition of blood, blood groups, coagulation of blood; composition of	scientific skills,		
		lymph and its function; human circulatory system	disciplinary value		
		Otherstone of house a board and blood one also could be could be sufficient.	Appericate the body organization		
		ECG, double circulation; regulation of cardiac activity, disorders of circula	of both plants &		
		hypertension, coronary artery disease, angina pectoris, heart failure	animals		
	JANUARY(09 Periods)	Chapter-19: Excretory Products and their Elimination			
	,	Modes of excretion - ammonotelism, ureotelism, uricotelism			
		human excretory system – structure and function; urine formation,			
		osmoregulation; regulation of kidney function - renin - angiotensin		LAB PRACTICALS/	
		atrial natriuretic factor, ADH and diabetes insipidus; role of other organs		ACTIVITIES	
		excretion; disorders - uremia, renal failure, renal calculi, nephritis;		&PROJECTS AS	
		dialysis and artificial kidney, kidney transplant		PRESCRIBED BY CBSE BOARD	
18	JANUARY(09 Periods)	Chapter-20: Locomotion and Movement		0000 007 11 10	
	,	Types of movement - ciliary, flagellar, muscular; skeletal muscle, contract			ANNUAL EXAM
		proteins and muscle contraction; skeletal system and its functions; joints			
		disorders of muscular and skeletal systems - myasthenia gravis,			
		tetany, muscular dystrophy, arthritis, osteoporosis, gout.			
		, , , , , , , , , , , , , , , , , , , ,			
19	FEBURAY(09 Periods)	Chapter-21: Neural Control and Coordination	a iii iais		

		Neuron and nerves; Nervous system in humans - central nervous system			
		peripheral nervous system and visceral nervous system; generation and			
		conduction of nerve impulse			
20	FEBURAY(09 Periods)	Chapter-22: Chemical Coordination and Integration			
		Endocrine glands and hormones; human endocrine system - hypothalar			
		pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads;			
		mechanism of hormone action ,role of hormones as messengers and re			
		hypo - and hyperactivity and related disorders; dwarfism,			
		, acromegaly, cretinism, goiter, exophthalmic goitre, diabetes, Addison's			
21	MARCH	REVISION			ANNUAL EXAM
	NOTE: CHAPTER 1 TO 22 ALL FOR ANNUAL EXAMINATION				