Cambridge International School, Mohal, Kullu Class-XI Subject – Biology Subject Code (044) Curriculum Session -2020-21

Unit Nov Name (Month.) Name (Month.) Practical Methodology Assessment Unit-1 Cell Structure and Function (Appril- May) Call structure and functions outcomes Study of the parts of a compound microscope. Discussion/ Explanation/ Discussion/ Explanati		565510	1-2020-21		
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		relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.			

Unit - III August - September	<pre>Human Physiology Learning outcomes Students will able , #To interprete terminologies related to Breathing and Respiration: Respiratory organs in animals (recall only); # To describe respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, #To analyse transport of gases and regulation of respiration, respiratory volume; # To classify disorders related to respiration - asthma, emphysema, occupational respiratory disorders. https://voutu.be/8VUVBgfNwkQ</pre> # To illustrate body fluids and circulation: # To describe composition of blood, blood groups, coagulation of blood; composition of lymph and its function; # To analyse human circulatory system - # To describe structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; # To categorize disorders of circulatory system - hypertension,coronary artery disease, angina pectoris, heart failure. https://voutu.be/hBxZ7RfchSg # To interprete terminologies related to excretory products and their elimination: # To describe mode Modes of excretion - ammonotelism, ureotelism, uricotelism; # To explain human excretory system - structure and function; # To describe urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in excretion, # To describe disorders related to excretion - uraemia, renal failure, renal calculi, nephritis; dialysis and artificial kidney. https://voutu.be/K9vrysezRpI # To oillustrate chemical coordination and regulation: # To discuss human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers	Detect the presence of sugar in urine. https://youtu.be/.eg-MHdoJ_Q Detect the presence of albumin in urine. https://youtu.be/i7dZBzhQCaI	Discussion/ Explanation through examples/ Video demonstration/ Notes making	Oral Test/ Class test/ Quizzes on google forms/ lab activity through virtual links.
	and regulators, # To categorize hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addision's disease. <u>https://youtu.be/gfjTBaMF8pY</u>			

Unit –IV	Diversity of Living Organism	Study of the specimens/ slides/	Discussion/	Oral Test/
Oct-Nov	Learning Outcomes*	models and identification with	Explanation	Class test/
	Students will able ,	reasons Bacteria, Spirogyra,	through	Quizzes on
		Rhizopus, mushroom, yeast,	examples/	google
	# To categorize five kingdom classification; # To	liverwort, moss, fern, pine, one	Video	forms/ lab
	Discuss salient features and classification of	monocotyledonous plant and one	demonstration/	activity
	Monera, Protista and Fungi into major groups:	dicotyledonous plant and one	Notes making	through
	Lichens, Viruses and Viroids. Salient features and	lichen.	Ũ	virtual
	classification of plants into major groups -			links.
	Algae,Bryophyta, Pteridophyta, Gymnospermae	Study of virtual specimens/		
	and Angiospermae (three to five salient and	slides/models and identification		
	distinguishing features	with reasons - Amoeba, Hydra,		
	and at least two examples of each category);s.	liver fluke, Ascaris, leech,		
	# To analyse salient features and classification of	earthworm, prawn, silkworm,		
	animals non chordates up to phyla level and	honeybee, starfish and rohu.		
	chordates up to class level	-		
	(three to five salient features and at least two			
	examples of each category).			
	https://youtu.be/FKZysxJawT4			

PRACTICALS

Evaluation SchemeMaximum Marks: 30One Major Experiment5 MarksOne Minor Experiment4 MarksSlide preparation5 MarksSpotting7 MarksPractical Record + Viva Voce4 MarksProject Record + Viva Voce5 MarksTotal30 Marks