Edexcel

Salters (A)

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Tanta	START OF TERM 1 NOTES		
Topic 5 5.1	On the wild side Ecosystems; communities; population		
	1 '		
5.2-5.3	Biotic and abiotic factors; concept of niche; habitats		
5.4	Sucession from colonisation; climax communities		
5.5 -5.9	Reaction of photosynthesis; ATP for energy; light-independent reactions		
J.J -5.9	of photosynthesis; role of chloroplasts in photosynthesis		
E 40 E 44	Calculations of: productivity, efficiency of biomass and energy transfer		
	between trophic levels		
	Climate change: Causes, evidence, data extrapolation, models		
5.16	Enzyme activity: Effects of temperature and impact		
5.17	Evolution		
5.18	Role of scientific community		
5.19	Isolation, gene flow and speciation		
5.20.	Scientific research and conclusions: Evaluation		
5.21	Knowledge of carbon cycle		
5.22	Management of human needs and conservation		
Topic 6	Immunity, infection and forensics		
6.1	Determination of time of death of a mammal		
6.2	Role of microorganisms in decomposition and recycling of carbon		
6.3-6.4	DNA: profiling and PCR		
6.5 6.6	Structure of bacteria and viruses HIV and TB		
6.7	Non-specific responses of body to infection		
6.8-6.9	Specific responses of body to infection: Antibodies, role of cells and differences between the immune cells		
6.10.	Genes, mRNA		
6.11	Entry of pathogens in body		
6.12-6.13	Immunity and evolutionary race of pathogens		
6.14	Antibodies: Bacteriostatic and bactercidial		
6.15	Hospital acquired infections and prevention		
	START OF TERM 2 NOTES		
Topic 7	Run for your life		
7.1	Movement: Structures involved, process and functions		
7.2 7.3	Process of skeletal muscle contraction: Sliding filament theory Respiration: aerobic & anaerobic respiration process		
7.3	Respiration: aerobic & anaerobic respiration process Roles of glycolysis		
7.5	Link reaction and Krebs cycle		
7.6	Oxidative phosphorylation and electron transport chain		
7.7	Lactate in anaerobic respiration		
7.8-7.9	Heart: Cardiac muscle; electrical activity of heart; cardiac output;		
7.1	Muscle fibres		
7.11-7.13	Homeostasis; Thermoregulation; feedback control mechanisms		

	Sports: Medical surgery and prostheses; ethics
7.16	Genes: Control by transcription factors and hormones
Topic 8	Grey Matter
8.1-8.2	Neurones; Schwann cells; myelination; sensation pathways
	Action potentials/nerve impulses and membrane permeability to sodium
8.3	and potassium
8.4	Synapses: structure and function
8.5	Nervous system of organisms: sight
8.6	Plants: phytochrome and IAA
8.7	coordination of nervous and hormonal control in animals
8.8 - 8.9	human brain: structure, function and imaging
8.10.	critical period in mammals
8.11-8.12	animal models: in research and ethics
8.13	habituation
8.14-8.15	brain chemicals: in disease and synaptic transmission
8.16	genome sequencing
8.17-8.19	Genetically modified organisms; contribution of nature and nuture