Class XI Subject: Bio Technology Syllabus

Month	Name of	Syllabus	TI.	Davision	Practical
Month	Book	Topics & Chapters	Theory	Revision Periods	Practical
April	DOOK	III is I I is a Bit to be about	Period 20	4	16
/ April		Unit_1 Introduction to Biotechnology Historical perspectives, production	20	4	10
		strategies in biotechnology. Quality			
		control, Good Manufacturing practices,			
		Product Safety, Good Laboratory			
		Practices, Intellectual property, Global			1
		market,			
May		Unit-II Biomolecules Chapter-1	20	4	16
		Building blocks of biomolecules -			
		Carbohydrates – Sugars and their			1
		derivatives, building block of			1
		proteins- Amino Acids, Building block			1
		of lipids- simple fatty Acid, , Glycerol			
		and cholesterol, Building block of nucleic acid – Nucleotides.			1
June		nucleic acid – Nucleotides.			
July		Chapter-2 Structure and function of	20	4	16
		macromolecules- carbohydrates –	20	• ,	
		The energy givers, proteins- The			
		performers, Enzyme- The catalysts,			
		Lipids and			
		Biomembrane – The Barrier. Nucleic			
		acid- The Managers.			
		Biochemical Techniques			
		Techniques based on molecular weight			
		or size.			
		Techniques based on polarity or			
		charge		l	
1		Techniques based of spectroscopy Techniques based on solubility			
August		Unit 3:	19	5	16
August		Chapter-1 Principles of Genetics.	19)	10
		Historical perspective, Multiple alleles,			
		Linkage and crossing over Genetic			
		mapping,			
September		Unit 3: Chapter 2: Discovery of DNA	19	5	16
горингон		as genetic material, Mutations, Genetic			
		Disorders			
		Genome function	111)		
		, DNA Replication , fine structure of	Borner Control		
		genes, from gene to protein,			
	sala .	Transcription, The basic processes,	Secretary .		
		Genetic code, Translation,		A STORY	
October	1 7 78	Unit 4: Cell and Development	19	5	16
		Chapter -1 Basic Unit of Life			
		Cell Structure and components,	1		
		Organisation of life.			
November		Chapter-2 Cell Growth and	19	5	16
		Development			
		Cell division, Cell cycle, Cell			
		communication, movement, Nutrition,			
Daggerst		reproduction, in vitro Animal	15		12
December		Cellular Techniques	15	3	12

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	Microscopy, Cell fractionation, Cell sorting, Cell growth determination.			
Jan	Genetical Techniques Chromosomal Techniques, Mutagenic Techniques, Recombination in bacteria, Breeding methods in plants, pedigree analysis in Human	18	6	16
February	Revision			
March	Exam			