Class XII Subject: Bio Technology Syllabus

Month	Name of Book	Topics & Chapters	Theory Period	Revision Periods	Practica
April		Unit-5 Protein & Gene Manipulation Ch. I: Recombinant DNA Technology	20	4	16
		Introduction Tools of rDNA Technology, Making of Recombinant DNA. Introduction of Recombinant DNA into host cells, Identification of recombinants, Polymerase chain Reaction (PCR).			
May		Unit- 5 Protein & Gene	20	4	16
		Manipulation			
		Ch. I: Recombinant DNA			
		Technology			
		DNA Sequencing,			
		DNA Probes.			
Tealer		June Summer Vacation	20		1.0
July		Unit- 5 Protein & Gene	20	4	16
		manipulation			
		Ch. II: Protein structure &			
		Engineering Introduction of world of Protein,			
		Structure-Function Relationship in			
		Proteins,			
		Characterization of Proteins,			
		protein Based Products, Designing			
		Proteins.			
August		Ch. III:	19	5	16
Tagast		Genomics And Bioinformatics	17		10
		Gene prediction and counting			
		Genome Similarity, SNPs and			
		Comparative Genomics, Functional			
		Genomics.			
September		Unit- 5 Protein & Gene	19	5	16
		Manipulation			
		Ch. III: Genomics &			
		Bioinformatics information sources,			
		Analysis using Bioinformatics tools			
		Proteomics.			
October		Unit- 6: Cell Culture Technology	19	5	16
		Ch. I: Microbial Culture &			
		Application:		ľ	
		Introduction, Microbial culture			
		Techniques, Measurement and			
		kinetics of microbial growth,			
		isolation of microbial products,			
November		Strain isolation and improvement Unit-6 Cell Culture Technology	19	5	. 17
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	Application: Application microbial culture technology, Bioethics in microbial Technology. Ch. II: Plant cell culture and Application Introduction, cell & tissue culture Techniques, Application cell and tissue culture			
December	Unit- 6 Cell culture Technology Ch. II: Plant cell culture & Application Plants with Beneficial Traits, Diagnostics in Agriculture and Molecular Breeding, Bioethics in Plants Genetic Engineering.	15	3	12
Jan	Unit- 6 Cell Culture Technology Ch. III: Animal cell Culture and Applications Introduction, Animal Cell Culture Techniques, Application of Animal cell culture, stem cell Technology Bioethics in Animal Genetic Engineering,	18	6	16
February	Revision			
March	Exam			