BIOLOGY

Month	Unit	Name of The Chapters
April- May	Reproduction	Reproduction in Organisms
		Sexual Reproduction in Flowering Plants
		Human Reproduction
		Reproductive Health
May	**UT-I**	
June-July	Genetics And Evolution	Principles of Inheritance and Variation
		Molecular Basis of Inheritance
	Biology In Human Welfare	Evolution
		Microbes in Human Welfare (Partly)
July	**UT-II**	
August	Biology In Human Welfare	Microbes in Human Welfare (Remaining)
		Strategies For Enhancement in Food Production
	Biology In Human Welfare	Human Health and Diseases
	Biotechnology	Biotechnology: Principles and Process
September	**Revision and BT-I**	
October - November	Biotechnology	Biotechnology and Its Application
	Ecology	Organisms and Population
		Ecosystems
		Biodiversity and Conservation
		Environmental Issues
November	**Revision**	
December	**Pre-Board**	
January	**Practice Test**	
Theory Paper 70 Marks + Practical Work 30 Marks		

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Practical work: Project File and Viva

Practical Marks: 30 Marks

Exam	Experiments	Spotting
Block Test 1	a) Collect water from two different water bodies around you and study them for pH, Clarity and presence of Living organism	a) Flowers adapted to pollination by different agencies
	b) Study pollen germination on a slide	b) Pollen germination on stigma through a permanent slide
	c) Controlled pollination- Emasculation, bagging and tagging.	c) T.S. Of testes and T.S. Of ovary through permanent slide
	d) Salivary amylase- Activity on starch	d) T.S. Of blastula through permanent slides
	e) Study the effect of different pH on the activity of Salivary amylase on starch	e) Pedigree Charts- Tongue rolling, Blood groups, Widow's peak, Sickle cell anaemia, colour blindness, ear lobe
	f) Study the effect of different temperatures on the activity of salivary amylase on starch	f) Disease causing organisms
	g) Water holding capacity of two types of soil.	g) Aquatic adaptations (Plants and Animals)
		h) Xeric adaptations (Plants and Animals)
Pre Boards	a) Collect and study soil from two different sites and study them for texture, moisture content, pH	a) Meiosis- Permanent slide observation
	b) Study the plant population density by Quadrat method	
	c) Study the plant population frequency by Quadrat method	
	d) Prepare a temporary mount of onion root tip to study mitosis	
	e) DNA isolation	

Evaluation Scheme

Heading	Marks
One major experiment Part A	5
One minor experiment Part A	4
Slide Preparation Part B	5
Spotting Part C	7
Practical Record + Viva Voce	4
Project Record + Viva Voce	5
Total	**30**