SUBJECT: BIOLOGY

Sr. No.	Month	Chapters	Learning Outcomes
1	APRIL	Reproduction in Angiospermic Plants	The students will be able to Define and explain important types of sexual and asexual reproduction in plants. Explain types and importance of pollination. Explain development of endosperm, embryo, seed and fruit development.
2	MAY	Human Reproduction Reproductive Health	The students will be able to Define and explain important concepts in the human reproduction. Draw and explain structure of human male and female reproductive system. Explain the process of reproduction in human. To understand need and method of birth control. To explain infertility and assisted reproductive technologies. Students learnt to prevent themselves from different STDs.
3	JUNE	Principles of inheritance and variation	The students learnt to illustrate the monohybrid and dihybrid crosses and evaluate phenotypic and genotypic ratio in different generation. They learnt to analyse and infer the blood group present in them by the parental crosses The students understand the difference between Mendelian cross and chromosomal inheritance. The students learnt how change in chromosomal number or point mutation can cause different type of genetic disease
4	JULY	Molecular basis of inheritance Evolution	The students will understand the importance of DNA in all activities. The students learnt how DNA fingerprinting helps in Forensic sciences. The learners learnt about the human genomic project which helped in identifying and preventing many hereditary disease.
5	AUGUST	Biology and Human Welfare Strategies for	The students learnt to draw the life cycle of malarial parasite showing different stages at different host.

		enhancement in food	Students learnt to prevent themselves from
		production	different diseases by observing sign and
		Microbes in human	symptoms.
		welfare	Students understood that different strategies
			in the improvement in food production.
			Learnt the way to conserve the exotic plants
			by tissue culture.
			The learners understood the role of microbes
			in sewage treatment, biogas production,
			preparation of antibiotics, enzymes,
			biofertilizers, etc.
6	SEPTEMBER	Biotechnology:	The students learnt the process of r-DNA
		Principles and	technology.
		processes	The learners understood how the technology
		Biotechnology and its	is used in large scale production of
		application	antibiotics, enzymes, etc. in industries.
			The students learnt about the different
			techniques which could be applied to transfer
			the genes.
			The students learnt about the gene therapy
			which enabled the medical scientist to replace
			the defective genes responsible for hereditary
			disease.
7	OCTOBER	Ecology and	The students learnt how adaptation allows
		environment	organism to survive and replace in natural
		Organisms and	environment.
		population	The students have learnt to explain how
		1 1	single species will grow and regulate.
8	NOVEMBER	Eggyyatam Digdiyyamityy	
		Ecosystem Biodiversity	The students will be able to analyse the roles
		and its conservation	
			of organism as a part of interconnected webs, population, communities and ecosystem,
			of organism as a part of interconnected webs,
			of organism as a part of interconnected webs, population, communities and ecosystem,
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids.
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from sunlight is transformed through an
			of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from sunlight is transformed through an environment.
9	DECEMBER		of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from sunlight is transformed through an environment. The students will be able to biological
9		and its conservation	of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from sunlight is transformed through an environment. The students will be able to biological diversity and its importance. The students will be able to Define and explain important concepts in the
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9		and its conservation	of organism as a part of interconnected webs, population, communities and ecosystem, They will be able to describe energy flow among population through food web and ecological pyramids. The will able to describe how energy from sunlight is transformed through an environment. The students will be able to biological diversity and its importance. The students will be able to Define and explain important concepts in the field of solid waste management, such as waste hierarchy, waste prevention,

			Explain the factors forcing climate change,
			and the extent of anthropogenic influence.
10	JANUARY	REVISION	
		PRE- BOARD	
		EXAMINATIONS	
11	FEBRUARY		
12	MARCH		