



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION  
SYLLABUS PLANNING FOR THE ACADEMIC YEAR 2020



TERM: FIRST

TEACHERS' NAME: Shaista Ahmed, Manjaree Guha and Debjani Chakraborty

No. of working days:- 88

No. of periods available: 27

Subject: LIFE SCIENCE

CLASS: 10

SECTION: A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOME WORK	CLASSWORK
JANUARY	8	Ch-1-Control and Coordination in Living Organisms.	Sensitivity and Response in Plants; Plant Movement , Plant Hormone	Objective Questions (MCQ, VSAQ,SAQ) to be given on topics- Plant movement and Plant Hormone	Notes to be given on Plant Movement, Functions of Plant Hormone <u>Project(Topic –Nature Study ) to be given to the students .</u> <u>Topic : The impact of air pollution in our daily life</u>  Briefing of patterns and method of answering the questions (MCQ, VSAQ,SAQ,LAQ) will be intimated.
FEBRUARY	10	Ch-1-Control and Coordination in Living Organisms.	Animal Hormone, Human Endocrine glands and Hormones secreted from them. Neural Control and Coordination, Nervous pathway, Neurone-Structure and Plants, Types of Nerve and Nervous System	Objective Questions (MCQ, VSAQ,SAQ) to be given on topics-Animal Hormone, Nervous System, Neurone, Nerve and Nervous System. Diagram to be given on structure of Neurone	Notes to be given on Flow chart of Source , Function, Hyposecretion and Hypersecretion of Different Animal Hormones. Discussion on topics- Components of Nervous System , Types of Neurone , Types of Nerve and Nervous System with notes. <u>Last date of Project Submission for 1<sup>st</sup> Term Examination- 07.03.2020</u>
MARCH	04	Ch-1-Control and Coordination in Living Organisms.	Different Parts of Brain, Reflex Action and Reflex Arc, Eye as Sense organ <u>Syllabus for 1<sup>st</sup> Term Examination : Chapter -1 (Till Eye as Sense Organ)</u>	Diagrams to be given on Reflex Arc and Structure of Eye	Notes to be given on Different parts of Brain- Types of Reflex Action, Reflex Arc , Different parts of Eye, defects of Eye.
APRIL	1 <sup>ST</sup> TERM Examination STARTS ON 15.04.2020 02	REVISION	REVISION OF THE CHAPTER 1	Very short answer type questions	Very short answer type questions, Short answer type questions were given as revision and long questions were discussed.

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

Signature of Teachers: *Shaista Ahmed, Debjani Chakraborty, Manjaree Guha*  
Submitted on: 27<sup>th</sup> January, 2020.

Academic Co-ordinator:

*Shaista Ahmed*

PRINCIPAL

VICE PRINCIPAL

*Manjaree Guha*



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION  
SYLLABUS PLANNING FOR THE ACADEMIC YEAR 2020



TERM: PRE-TEST

TEACHERS' NAME: Shaista Ahmed, Manjaree Guha and Debjani Chakraborty

No. of working days:- 60

No. of periods available: 21

Subject: LIFE SCIENCE

CLASS: 10

SECTION: A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASSWORK
MAY	04	Ch-1-Control and Coordination in Living Organisms.	Types of animal locomotion, Role of movable Joints and skeletal muscles	Objective Questions (MCQ, VSAQ, SAQ) to be given on different types of animal locomotion , types of joints, types of movement. (Project to be done by the students as holiday homework)	Notes to be given on locomotion in Amoeba , Paramecium, Euglena, Fish, Bird , Human, Types of joint and types of movement. <u>Project (Topic- Model making) to be given to the students.</u> <u>Topic: Phases of mitosis in a Plant cell or an animal cell.</u>  Briefing of patterns and Method of answering the questions(MCQ, VSAQ, SAQ, LAQ) will be intimated.
JUNE	06	Ch-2-Continuity of life	Inter relationship among Chromosome, DNA and gene, Types and parts of chromosome, Types and significance of cell division, Cell cycle, Comparison between Mitosis and Meiosis.	Short questions to be given on nucleosome model, Diagrams to be given on Structure of Chromosome, Phase of Cell cycle and stages of Mitosis.	Discussion on Concept of nucleosome Model, Notes to be given on Types and Structure of Chromosome, Chemical Composition of Chromosomes, Phases of Cell Cycle , Stages of Mitosis and Meiosis <u>Last date of Project Submission for Pre- Test Examination- 12.06.2020</u>
JULY	11	Ch-2-Continuity of life And Heredity and some common genetic diseases.	Reproduction-Concept and Modes of Vegetative, Asexual and Sexual Reproductive , Growth and Development , Phases of Human Development	Objective Questions (MCQ, VSAQ, and SAQ) to be given on Asexual Reproduction, Vegetative Reproductive, Pollination, Human Life Span Development, Terms associated with Heredity, Reasons for selecting Pea Plant as Mendel's experimental material. Diagrams to be given on Parts of flower.	Notes to be given on Types of Asexual Reproduction, Vegetative Reproduction, Alternation of generation, Parts of a flower, Pollination- types and agents, Phases of growth, Human Life span Development, Mendel's work on pea plant.
AUGUST	(Pre-Test Examination begins on 03.08.2020)  05	Ch-3-Heredity and some common Genetic Diseases.	Syllabus for Pre- Test Examination : Chapter1,2,3 (till Pg- 84 till before 'Mendel's work on Pea Plant )  Mendel's Experiment, Mendel's laws, Some common Genetic Diseases.	Objective Questions (MCQ, VSAQ, SAQ) to be given on Seven pairs of contrasting characters. Long questions to be given on flow chart of monohybrid Cross, Dihybrid cross, Incomplete Dominance.	Discussion on terms associated with Monohybrid cross, Dihybrid cross, Laws of Mendel, Incomplete dominance, Sex determination in man, Common genetic diseases. <u>Project (Topic – Creative Writing ) to be given to the students .</u> <u>Topic: Adaptation of cactus and camel in arid and desert region.</u>  Briefing of patterns and Method of answering the questions (MCQ, VSAQ, SAQ, LAQ) will be intimated.

Teachers are requested to prepare a LESSON PLAN for each Topic to be taught. The Lesson plans are to be submitted along with the monthly planner.

Signature of Teachers: *Shaista Ahmed, Debjani Chakraborty, Manjaree Guha.*  
Submitted on: 27<sup>th</sup> January, 2020.

PRINCIPAL

Academic Co-ordinator: *Shaista Ahmed*

VICE PRINCIPAL *Shaista Ahmed*



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION  
SYLLABUS PLANNING FOR THE ACADEMIC YEAR 2020



TERM: TEST

TEACHERS' NAME: Shaista Ahmed, Manjaree Guha and Debjani Chakraborty

No. of working days:- 49

No. of periods available: 23

Subject: LIFE SCIENCE

CLASS: 10

SECTION: A,B,C,D

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASSWORK
SEPTEMBER	10	Ch-4 –Evolution and Adaptation. Ch-5- Environment: Its Resources and their Conservation	Evolution- Concept and evidences, Adaptation behaviour, Examples of adaptation. Nitrogen Cycle and Environment Pollution.	Objective questions to be given on Theories( Lamarckism and Darwinism) and Evidences of Evolution, Short questions to be given on different types of adaptation. Objective questions (MCQ,VSAQ,SAQ) to be given on Nitrogen Cycle, Causes and Effects of environmental pollution.	Discussion on origin of life , Theories (Lamarckism, Darwinism and Evidences of Evolution, Morphological, Physiological behavioural Adaptation  Discussion on Nitrogen Cycle, Different types of pollution,- Its causes and effects. <u>Last date of project submission for selection Test Examination 21.09.2020.</u>
OCTOBER	06	Ch- 5- Environment: Its Resources and their Conservation	Environment and Human population, Biodiversity and conservation  Revision of all chapters- (1,2,3,4 and 5) done throughout the academic year,	Objective questions(MCQ, VSAQ, SAQ,LAQ) to be given on Environment and human health, Importance of Biodiversity , Biodiversity hotspots, Loss of biodiversity, Types of Conservation and Conservation of some major Animals.	Discussion on over – increasing population , Environment and Human health, Importance of Biodiversity , Biodiversity hotspots , Loss of biodiversity , Types of Conservation and Conservation of some major animals.
NOVEMBER	Selection Test Examination begins on 03.11.2020		<u>Syllabus for Selection Test Examination:</u> <u>Chapters 1, 2,3,4 and 5.</u>		
DECEMBER					

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Signature of Teachers: *Shaista Ahmed, Debjani Chakraborty, Manjaree Guha*  
Submitted on: 27<sup>th</sup> January, 2020.

Academic Co-ordinator: *Shaista Ahmed*

PRINCIPAL

*Manjaree Guha*  
VICE PRINCIPAL