



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION
SYLLABUS PLANNING FOR THE ACADEMIC YEAR 2021

TERM: FIRST

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

No. of working days:-72

Subject: LIFE SCIENCE

CLASS:10

SECTION: A,B,C,D

MONTH	LESSONS	TOPICS COVERED	HOME WORK	CLASSWORK
JANUARY	FIRST TERM BEGINS 01/01/21 - 15-04-21 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 Briefing of patterns and method of answering the questions (MCQ, VSAQ,SAQ,LAQ) will be intimated.
FEBRUARY	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.
MARCH	Ch-1-Control and Coordination in Living Organisms.	Different Parts of Brain, Reflex Action and Reflex Arc, Eye as Sense organ	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	<u>Syllabus for 1st Term Examination : Chapter -1 (Till Eye as Sense Organ)</u> Revision for the first term syllabus EXAMINATION - 16-04-21	Revision of the syllabus of first term-Plant movement and hormones , Animal hormones and Nervous system	Short answer type and very short answer type questions to be discussed as a part of revision of the first term syllabus	Short answer type and very short answer type questions to be discussed as a part of revision of the first term syllabus

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, Manjaree Guha, Debjani Chakraborty*
Submitted on: 15th March, 2021.

Academic Co-ordinator:

Shaista Ahmed
15/03/21

PRINCIPAL

VICE PRINCIPAL

Manjaree Guha
15/3/21



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TERM: SECOND

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

No. of working days:- 62

Subject: LIFE SCIENCE

CLASS: 10

SECTION: A,B,C,D

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASSWORK
MAY	Ch-1-Control and Coordination in Living Organisms. SECOND TERM BEGINS 03-05-21 - 04-08-21	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 <i>Amoeba</i> , <i>Paramecium</i> , <i>Euglena</i> , Fish, Bird, Human, Types of joint and types of movement. Briefing of patterns and Method of answering the questions (MCQ, VSAQ, SAQ, LAQ) will be intimated.
JUNE	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
JULY	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	Second term examination 2021 - 05-08-21 Ch-3-Heredity and some common Genetic Diseases.	<u>Syllabus for second term Examination :</u> <u>Chapter 1,2,3 (till Pg- 84 till before 'Mendel's work on Pea Plant)</u> <u>REVISION FOR SECOND TERM EXAM</u> Mendel's Experiment, Mendel's laws, Some common Genetic Diseases.	<u>Short answer type and very short answer type questions were given on the Second term syllabus</u> Objective Questions (MCQ, VSAQ, SAQ) to be given on Seven pairs of contrasting characters, 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. Briefing of patterns and Method of answering the questions (MCQ, VSAQ, SAQ, LAQ) will be intimated.

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Signature of Teachers: *Shaista Ahmed, Manjaree Guha, Debjani Chakraborty*

Submitted on: 15th March, 2021.

PRINCIPAL

Academic Co-ordinator:

Shaista Ahmed
15/03

VICEPRINCIPAL

Manjaree Guha
15/3/21



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TERM: TEST

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

No. of working days:- 66

Subject: LIFE SCIENCE

CLASS: 10

SECTION: A,B,C,D

MONTH	LESSONS	TOPICS COVERED	HOMEWORK	CLASSWORK
SEPTEMBER	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.
OCTOBER	Ch- 5- Environment: Its Resources and their Conservation	Environment and Human population	Objective questions(MCQ, VSAQ, SAQ,LAQ) to be given on Environment and human health.	Discussion on – increasing population , Environment and Human health
NOVEMBER	Ch- 5- Environment: Its Resources and their Conservation	Biodiversity and conservation Revision of all chapters- (1,2,3,4 and 5) done <u>Syllabus for Selection Test Examination:</u> <u>Chapters 1, 2,3,4 and 5.</u>	Very short answer type question on Importance of Biodiversity , Biodiversity hotspots, Loss of biodiversity, Types of Conservation and Conservation of some major Animals.	Discussion on Importance of Biodiversity , Biodiversity hotspots , Loss of biodiversity , Types of Conservation and Conservation of some major animals.
DECEMBER	Revision of chapter 1,2,3,4 and 5			

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