



ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the academic year 2019

Subject: BIOLOGICAL SCIENCES

TERM: First Term

TEACHER'S NAME: MS. DEBJANI CHAKRABORTY, MS. MANJAREE GUHA

No. of working days: 86

No. of periods available: 02

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY					
FEBRUARY					
MARCH					
APRIL	02	CHAPTER 1: THE LIVING WORLD	DIVERSITY IN LIVING WORLD, TAXONOMY AND TAXONOMICAL AIDS	RELATED ANSWERS AS PER H.S COUNCIL GUIDELINES	DISCUSSION ON BINOMIAL NOMENCLATURE, LINNEAN HIERARCHY.

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.

Name of the Teacher: DEBJANI CHAKRABORTY, MS. MANJAREE GUHA

Signature of Teacher: *Debjani Chakrabarty, Manjaree Guha*

PRINCIPAL

Submitted on: 28.01.19

Academic Co-ordinator

VICE-PRINCIPAL

Susmita Banerjee
30/1/19

[Signature]
6/2/19



ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the academic year 2019

TERM: FIRST TERM+ MID-TERM

TEACHER'S NAME: MS. DEBJANI CHAKRABORTY, MS.MANJAREE GUHA

Subject: BIOLOGICAL SCIENCES

No. of working days: 70

No. of periods available: 42

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
MAY	06	CHAPTER 2: BIOLOGICAL CLASSIFICATION CHAPTER 3: PLANT KINGDOM	FIVE KINGDOM CLASSIFICATION OF WHITTAKER, 1969 ALGAE, FUNGI, BRYOPHYTE, PTERIDOPHYTE, GYMNOSPERM	OBJECTIVE QUESTIONS TO BE GIVEN ON DIFFERENT KINGDOMS OF WHITTAKER'S CLASSIFICATION. SHORT QUESTIONS TO BE GIVEN RELATED TO THE TOPICS TAUGHT.	NOTES ON FIVE KINGDOM CLASSIFICATION OF WHITTAKER NOTES ON COMPARISON OF DIFFERENT PLANT GROUPS
JUNE	10	CHAPTER 4: ANIMAL KINGDOM CHAPTER 5: MORPHOLOGY OF FLOWERING PLANTS CHAPTER 8: CELL: THE UNIT OF LIFE	BASIS OF CLASSIFICATION, LEVELS OF ORGANISATION, ANIMAL CLASSIFICATION (INVERTEBRATES AND VERTEBRATES) ROOT, STEM, LEAVES, FLOWERS, FRUITS, FLORAL FORMULA CELL THEORY AND CELL ORGANELLES	SHORT QUESTIONS TO BE GIVEN ON COMPARISON OF DIFFERENT ANIMAL GROUPS DIAGRAMS ON AESTIVATION, PLACENTATION DIAGRAMS ON DIFFERENT CELL ORGANELES	NOTES ON COMPARISON OF DIFFERENT ANIMAL GROUPS EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC. SHORT QUESTIONS AND ANSWERS AS PER H.S COUNCIL GUIDELINES
JULY	15 FIRST TERM EXAMINATION BEGINS ON 29.07.19	CHAPTER 9: BIOMOLECULES CHAPTER 10: CELL CYCLE AND CELL DIVISION CHAPTER 12: MINERAL NUTRITION <u>SYLLABUS FOR FIRST TERM EXAM – CHAPTER 1, 2, 3, 4, 5, 8, 9, 10, 12</u>	MACROMOLECULES, MICROMOLECULES AND ENZYMES PHASES OF CELL CYCLE, DETAILS OF STAGES OF MITOSIS AND MEIOSIS MACRO- AND MICRONUTRIENTS, NITROGEN METABOLISM	SHORT QUESTIONS AND ANSWERS AS PER H.S COUNCIL GUIDELINES DIAGRAMS ON STAGES OF MITOSIS, MEIOSIS SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON NITROGEN METABOLISM	EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC. NOTES ON COMPARISON OF MITOSIS AND MEIOSIS AND CYTOKINESIS IN PLANTS AND ANIMALS EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC.
AUGUST	11	CHAPTER 6: ANATOMY OF FLOWERING PLANTS CHAPTER 7: STRUCTURAL ORGANISATION IN ANIMALS	PLANT TISSUE, STRUCTURAL ORGANIZATION OF PLANT TISSUE IN DIFFERENT PLANT PARTS. TYPES OF ANIMAL TISSUES, MORPHOLOGY AND ANATOMY OF COCKROACH <u>DETAILS OF PROJECT TO BE DISCUSSED IN CLASS.</u>	COMPARISON OF ANATOMY OF DICOT AND MONOCOT PLANTS. SHORT QUESTIONS AND ANSWERS AS PER H.S COUNCIL GUIDELINES	NOTES ON TYPES OF PLANT TISSUE NOTES ON TYPES OF ANIMAL TISSUE AND MORPHOLOGY AND ANATOMY OF COCKROACH.

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Submitted on: 28.01.19

Signature of Teacher: *Debjani Chakraborty* *Manjaree Guha*
PRINCIPAL

Academic Co-ordinator: *Susmita Barua* 28/1/19
VICE-PRINCIPAL *[Signature]* 26/2/19



ST. LAWRENCE HIGH SCHOOL

JESUIT CHRISTIAN MINORITY INSTITUTION
Syllabus planning for the academic year 2019

Subject: BIOLOGICAL SCIENCES

TERM: Mid-Term

TEACHER'S NAME: MS. DEBJANI CHAKRABORTY, MS.MANJAREE GUHA

No. of working days: 73

No. of periods available: 37

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	12	CHAPTER 11: TRANSPORT IN PLANTS CHAPTER 13: PHOTOSYNTHESIS CHAPTER 15: PLANT GROWTH AND DEVELOPMENT	DIFFUSION, ACTIVE TRANSPORT, WATER POTENTIAL LIGHT REACTION, CALVIN CYCLE, C4 AND C2 CYCLE PHASES AND CONDITIONS OF GROWTH, GROWTH REGULATORS, PHOTOPERIODISM, VERNALIZATION	OBJECTIVE QUESTIONS TO BE GIVEN ON ACTIVE TRANSPORT, PASSIVE TRANSPORT, PHLOEM LOADING AND UNLOADING. DIAGRAMS ON LIGHT REACTION CALVIN CYCLE, C4 AND C2 CYCLE OBJECTIVE QUESTIONS TO BE GIVEN ON PLANT HORMONES.	NOTES ON ASCENT OF SAP, MASS FLOW HYPOTHESIS SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT. SHORT QUESTIONS AND ANSWERS RELATED TO THE TOPIC TAUGHT. <u>LAST DATE OF PROJECT SUBMISSION IS 19.09.2019.</u>
OCTOBER	7	CHAPTER 14: RESPIRATION IN PLANTS CHAPTER 16: DIGESTION AND ABSORPTION	AEROBIC AND ANAEROBIC RESPIRATION, R.Q DIGESTIVE SYSTEM, DISORDERS OF DIGESTIVE SYSTEM	SCHEMATIC REPRESENTATIONS OF GLYCOLYSIS, KREB'S CYCLE QUESTIONS TO BE GIVEN ON DIGESTION OF NUTRIENTS	NOTES ON PHASES AEROBIC RESPIRATION NOTES ON DIGESTION OF CARBOHYDRATES, PROTEINS, FATS
NOVEMBER	14	CHAPTER 17: BREATHING CHAPTER 18: CIRCULATION CHAPTER 19: EXCRETORY PRODUCTS	TRANSPORT OF GASES, DISORDER OF RESPIRATORY SYSTEM BLOOD GROUPS, CARDIAC CYCLE URINE FORMATION, MICTURITION, DISORDER OF EXCRETORY SYSTEM	QUESTIONS TO BE GIVEN ON DIFFERENT TERMS RELATED TO RESPIRATION QUESTIONS TO BE GIVEN ON FLOWCHART OF BLOOD CIRCULATION, BLOOD COAGULATION QUESTIONS TO BE GIVEN ON FUNCTIONS OF DIFFERENT COMPONENTS OF NEPHRON.	NOTES ON EXCHANGE AND TRANSPORT OF GASES NOTES ON BLOOD COAGULATION THROUGH HUMAN HEART EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON RELEVANT TOPIC.
DECEMBER	04	CHAPTER 20: LOCOMOTION AND MOVEMENT CHAPTER 21: NEURAL CONTROL AND COORDINATION CHAPTER 22: ENDOCRINE SYSTEM	MUSCLES, JOINTS, DISORDERS OF SKELETAL SYSTEM HUMAN NERVOUS SYSTEM, GENERATION OF NERVE IMPULSE, SENSORY RECEPTION SITE OF SECRETION AND ROLE OF PITUITARY HORMONES	QUESTIONS TO BE GIVEN TO STRUCTURE OF SKELETAL MUSCLE, SKELETAL SYSTEM DIAGRAMS OF EYE, EAR QUESTIONS TO BE GIVEN ON PITUITARY HORMONES	NOTES ON TYPES OF MUSCLE AND JOINTS, SKELETAL SYSTEM NOTES ON NEURAL SYSTEM, CNS, EYE, EAR NOTES ON SITE OF SECRETION AND ROLE OF PITUITARY HORMONES

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.

Name of the Teacher: DEBJANI CHAKRABORTY, MANJAREE GUHA

Submitted on: 28.01.19

Signature of Teacher: *Debjani Chakraborty*, *Manjaree Guha*

Academic Co-ordinator: *Susmita Banerjee* 20/1/19

PRINCIPAL

VICE-PRINCIPAL: *perky 6/2/19*



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JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the academic year 2019

Subject: BIOLOGICAL SCIENCES

TERM: PRE-ANNUAL EXAMINATION

TEACHER'S NAME: MS. DEBJANI CHAKRABORTY, MS. MANJAREE GUHA

No. of working days: 23

No. of periods available: 10

CLASS: 11

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
JANUARY	10 (APPROX.)	CHAPTER 22: CHEMICAL CO-ORDINATION AND INTEGRATION	CONTINUATION OF CHAPTER 22 MECHANISM OF HORMONE ACTION REVISION OF ENTIRE SYLLABUS	QUESTIONS TO BE GIVEN ON PITUITARY HORMONES	EXPLANATION AND NOTES TO BE GIVEN ON RELEVANT TOPIC

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Name of the Teacher: DEBJANI CHAKRABORTY, MANJAREE GUHA

Signature of Teacher: Debjani Chakraborty, Manjaree Guha

PRINCIPAL

Submitted on: 28.01.19

Academic Co-ordinator

VICE-PRINCIPAL

Susmita Banerjee
30/1/19
[Signature]
16/2/19