

A JESUIT CHRISTIAN MINORITY INSTITUTION





SUBJECT: BIOLOGICAL SCIENCE NO. OF WORKING DAYS:-21

TERM: PRE-TEST

NO. OF PERIODS AVAILABLE: 03

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

CLASS: 12

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOME-WORK	CLASS-WORK
JANUARY					
FEBRUARY					
MARCH			*		
APRIL	03	CHAPTER-1 REPRODUCTION IN ORGANISMS	ASEXUAL REPRODUCTION , SEXUAL REPRODUCTION, PRE- AND POST- FERTILIZATION EVENTS.	OBJECTIVE QUESTIONS (MCQ,VSAQ,SAQ) TO BE GIVEN ON TOPICS- ASEXUAL REPRODUCTION, SEXUAL REPRODUCTION, PRE AND POST FERTILIZATION EVENTS.	NOTES TO BE GIVEN ON MODES OF ASEXUAL REPRODUCTION, TYPES OF SYNGAMY, TYPES OF POLLINATION.

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

Signature of Teacher: Manziale Gula, Seljini Chakubar

PRINCIPAL

Submitted on : . 28.01.2019

Academic Co-ordinatof

VICE PRINCIPAL 6 2/19



A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the Academic Year 2019

TERM: PRE-TEST

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

CLASS: 12

SECTION: A1, A2

SUBJECT: BIOLOGICAL SCIENCE

NO. OF WORKING DAYS:-25

NO. OF PERIODS AVAILABLE: 22

	NO OF					
QNTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK	
MAY	07	CHAPTER -2:HUMAN REPRODUCTION CHAPTER: 4: REPRODUCTIVE HEALTH	GAMETOGENESS,OOGENESIS, IMPLANTATION AND FERTILIZATION BIRTH CONTROL, SEXUALLY TRANSMITTED DISEASE, INFERTILITY	 OBJECTIVE QUESTIONS (MCQ, VSAQ, SAQ) TO BE GIVEN ON TOPICS- MALE AND FEMALE REPRODUCTIVE SYSTEM, GAMETOGENESIS, OOGENESIS, IMPLANTATION. SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS- BIRTH CONTROL, SEXUALLY TRANSMITTED DISEASE, INFERTILITY. 	 EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICS-MALE AND FEMALE REPRODUCTIVE SYSTEM, GAMETOGENESIS, OOGENESIS, IMPLANTATION. EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICS-BIRTH CONTROL, SEXUALLY TRANSMITTED DISEASE, INFERTILITY. 	
JUNE	15	CHAPTER-5: PRINCIPLES OF INHERITANCE CHAPTER 8: HUMAN HEALTH AND DISEASE CHAPTER 6: MOLECULAR BASIS OF INHERITANCE.	 MENDEL'S LAW OF INHERITANCE, MONOHYBRID AND DIHYBRID CROSS, INCOMPLETE DOMINANCE, CO-DOMINANCE, LINKAGE, SEX- DETERMINATION, MUTATION, PEDIGREE ANALYSIS, MENDELIAN DISORDERS. COMMON DISEASES IN HUMAN, IMMUNITY, AIDS, CANCER, DRUG AND ALCOHOL ABUSE NUCLEOSOME MODEL, REPLICATION, TRANSCRIPTION. 	OBJECTIVE QUESTIONS ON (MCQ, VSAQ,SAQ) AND LONG ANSWER QUESTIONS TO BE GIVEN ON TOPICS-MENDEL'S LAW OF INHERITANCE, MONOHYBRID AND DIHYBRID CROSS, INCOMPLETE DOMINANCE, CODOMINANCE, LINKAGE, SEX-DETERMINATION, MUTATION, PEDIGREE ANALYSIS, MENDELIAN DISORDERS, CHROMOSOMAL DISORDERS OBJECTIVE QUESTIONS ON (MCQ, VSAQ,SAQ) TO BE GIVEN ON COMMON DISEASES IN HUMAN, IMMUNITY, AIDS, CANCER,DRUG AND ALCOHOL ABUSE. LONG ANSWER QUESTIONS TO BE GIVEN ON TOPICS-NUCLEOSOME MODEL, REPLICATION, TRANSCRIPTION.	 EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICS-BACKCROSS, TESTCROSS, MULTIPLE ALLELE, LINKAGE, PEDIGREE ANALYSIS. DISCUSSION AND NOTES TO BE GIVEN ON-IMMUNITY, ELISA, AIDS, CANCER, DRUG, AND ALCOHOL ABUSE EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICS-NUCLEOSOME MODEL, REPLICATION, TRANSCRIPTION. LAST DATE OF PROJECT SUBMISSION- 13. 06.2019 	

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Signature of Teacher: Manyanee Guha, Seljani Chamasorly

PRINCIPAL

Submitted on: 28.01.2019

Academic Co-ordinator

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SUBJECT: BIOLOGICAL SCIENCE

NO. OF WORKING DAYS:-45

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the Academic Year 2019

TERM: PRE-TEST

NO. OF PERIODS AVAILABLE: 29.

CLASS: 12

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

SECTION: A1, A2

QNTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
√∪ L)	17	CHAPTER 6: MOLECULAR BASIS OF INHERITANCE CHAPTER 7: EVOLUTION CHAPTER 9: STRATEGIES FOR ENHANCEMENT INFOOD PRODUCTION. PRE- TEST EXAMINATION BEGINS ON 29.07.2019	 GENETIC CODE, TRANSLATION, OPERON CONCEPT, DNA FINGERPRINTING EVIDENCES OF EVOLUTION, ADAPTIVE RADIATION, MECHANISM OF EVOLUTION, HARDY – WEINBERG PRINCIPLE, ORIGIN AND EVOLUTION OF MAN PLANT AND ANIMAL BREEDING, SINGLE CELL PROTEIN, TISSUE CULTURE SYLLABUS FOR PRE- TEST EXAMINATION: CHAPTER-1,2,3,4,5,6,7,8,9 	LONG ANSWER QUESTION TO BE GIVEN ON TOPICS-PROPERTES OF GENETIC CODE, TRANSLATION, LAC OPERON, DNA FINGERPRINTING OBJECTIVE QUESTIONS ON (MCQ, VSAQ,SAQ) TO BE GIVEN ON-EVIDENCES OF EVOLUTION, ADAPTIVE RADIATION, MECHANISM OF EVOLUTION, HARDY – WEINBERG PRINCIPLE, ORIGIN AND EVOLUTION OF MAN SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS-PLANT AND ANIMAL BREEDING, SINGLE CELL PROTEIN, TISSUE CULTURE	 EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICSORIGIN OF LIFE, CONVERGENT AND DIVERGENT EVOLUTION, INDUSTRIAL MELANISM, FLOW CHART OF HUMAN EVOLUTION EXPLANATION, DISCUSSION, AND NOTES TO BE GIVEN ON TOPICS- PLANT BREEDING, TISSUE CULTURE, MICROPROPAGATION.
AUGUST	5 T	CHAPTER 10: MICROBES IN HUMAN WELFARE CHAPTER 11: BIOTECHNOLOGY : PRINCIPLES AND PROCESSES.	ROLE OF MICROBES IN DIFFERENT ASPECTS LIKE HOUSEHOLD PRODUCTS, INDUATRIES, SEWAGE TREATMENT, BIOGAS PRODUCTION, AS BIOCONTROL AGENTS, BIOFERTILIZERS. TOOLS OF RECOMBINANT DNA TECHNOLOGY, CLONING VECTORS, PROCESSES OF RECOMBINANT DNA TECHNOLOGY	 SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS- ROLE OF MICROBES IN DIFFERENT ASPECTS LIKE HOUSEHOLD PRODUCTS, INDUATRIES, SEWAGE TREATMENT, BIOGAS PRODUCTION, AS BIOCONTROL AGENTS, BIOFERTILIZERS. OBJECTIVE QUESTIONS ON (MCQ, VSAQ,SAQ) TO BE GIVEN ON- RESTRICTION ENZYMES AND CLONING VECTORS. 	

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Signature of Teacher: Manyanes Guha, Debjoin Chrkusbarty

PRINCIPAL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Syllabus planning for the Academic Year 2019

TERM: TEST

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

NO. OF WORKING DAYS:-34

SUBJECT: BIOLOGICAL SCIENCE

NO. OF PERIODS AVAILABLE: 19

CLASS: 12

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
SEPTEMBER	12	CHAPTER 12:BIOTECHNOLOGY AND ITS APPLICATIONS CHAPTER 13:ORGANISMS AND POPULATION CHAPTER 14:ECOSYSTEM CHAPTER 15:BIODIVERSITY AND CONSERVATION	 BIOTECHNOLOGICAL APPLICATIONS IN AGRICULTURE, MEDICINE, TRANSGENIC ANIMALS. ORGANISMS AND ITS ENVIRONMENT, ADAPTATION, POPULATION ATTRIBUTES, POPULATION GROWTH, POPULATION INTERACTIONS. ECOSYSTEM-STRUCTURE AND FUNCTION, PRODUCTIVITY, ENERGY FLOW, ECOLOGICAL PYRAMIDS, ECOLOGICAL SUCCESSION, NUTRIENT CYCLING. BIODIVERSITY, PATTERNS OF BIODIVERSITY. 	 SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS-GENETICALLY ENGINEERED INSULIN, GENE THERAPY, TRANSGENIC ANIMALS SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS-ADAPTATION, POPULATION ATTRIBUTES, POPULATION GROWTH, POPULATION INTERACTIONS. OBJECTIVE QUESTIONS AND LONG ANSWER QUESTIONS TO BE GIVEN ON TOPICS: ECOSYSTEM-STRUCTURE AND FUNCTION, PRODUCTIVITY, ENERGY FLOW, ECOLOGICAL PYRAMIDS, ECOLOGICAL SUCCESSION, NUTRIENT CYCLING. SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS- BIODIVERSITY, PATTERNS OF BIODIVERSITY. 	EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPIC-GENETICALLY ENGINEERED INSULIN, GENE THERAPY, TRANSGENIC ANIMALS EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPIC-ADAPTATION, POPULATION ATTRIBUTES, POPULATION GROWTH, POPULATION INTERACTIONS. EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPIC-COMPONENTS OF ECOSYSTEM ENERGY FLOW, ECOLOGICAL PYRAMIDS, ECOLOGICAL SUCCESSION, NUTRIENT CYCLING. EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPICS-TYPES OF BIODIVERSITY.
OCTOBER	07	CHAPTER 15:BIODIVERSITY AND CONSERVATION CHAPTER 16:ENVIRONMENTAL ISSUES	 LOSS AND CAUSES OF BIODIVERSITY, BIODIVERSITY CONSERVATION CAUSES AND CONTROL OF AIR POLLUTION, WATER POLLUTION, SOLID WASTE, GREEN HOUSE EFFECT, OZONE DEPLETION, DEFORESTATION. 	 SHORT ANSWER TYPE QUESTIONS TO BE GIVEN ON TOPICS-LOSS AND CAUSES OF BIODIVERSITY, BIODIVERSITY CONSERVATION, IN-SITU AND EX-SITU CONSERVATION. OBJECTIVE QUESTIONS AND LONG ANSWER QUESTIONS TO BE GIVEN ON TOPICS-CAUSES AND CONTROL OF AIR POLLUTION, WATER POLLUTION, SOLID WASTE, GREEN HOUSE EFFECT, OZONE DEPLETION, DEFORESTATION. 	EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPICS-IN-SITU AND EX-SITU CONSERVATION. EXPLANATION, DISCUSSION AND NOTES TO BE GIVEN ON TOPICS- CAUSES AND CONTROL OF AIR POLLUTION, WATER POLLUTION, SOLID WASTE, GREEN HOUSE EFFECT, OZONE DEPLETION, DEFORESTATION.

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Signature of Teacher: Manyante (9)

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PRINCIPAL

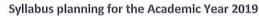
Submitted on: 28.01.2019

Academic Co-prdinator : .

VICE PRINCIPAL 7 6/2/19



A JESUIT CHRISTIAN MINORITY INSTITUTION



TERM: TEST

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

NO. OF WORKING DAYS:-21

SUBJECT: BIOLOGICAL SCIENCE

NO. OF PERIODS AVAILABLE: 04

CLASS: 12

SECTION: A1, A2

MONTH	NO. OF PERIODS	LESSONS	TOPICS COVERED	HOMEWORK	CLASS WORK
NOVEMBER	04	REVISION OF ENTIRE SYLLABUS SELECTION TEST EXAMINATION BEGINS ON 15.11.19	SYLLABUS FOR SELECTION TEST EXAMINATION: CHAPTERS- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16		
DECEMBER					

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Signature of Teacher: Manyaree Guha, Selyani Chrkurborty

PRINCIPAL

Submitted on: . 28.01.2019

Academic Co-ordinator:

VICE PRINCIP