

ACADEMIC PLAN :2023-24
CARMEL CONVENT SR SEC SCHOOL ,RATANPUR,BHOPAL. STD: XII -B
SUBJECT: BIOLOGY

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/Practicals	Assignment	Assessment
APRIL	Reproduction •Sexual Reproduction in flowering plants. •Reproduction in humans	Understand the role of different floral parts in sexual reproduction. Knowledge of microsporogenesis and megasporogenesis. understand events of fertilization.	Pollen germination. Pollination activity Slides. Cross-words. Quiz puzzles	Question bank Diagrams Group Activities mcq	Written test Lab activity Quiz Oral questioning
JUNE	• Reproductive health *Principles of inheritance and variations	Learn the importance of reproductive health • sexually transmitted disease and its prevention Empathize with children suffering from genetic disorders	Critically analyse the implementation of reproductive health by government. -Perform the experiment -Make crosses.	Summarisation by students MCQ Peer Assessment Case Studies Lab Activities	Interactive method Students will be asked to revise the work done in class. Quiz PT-1
JULY	*Molecular Basis of Inheritance *Evolution	Students will know and understand DNA, RNA, replication, transcription, genetic code, translation, regulation of gene expression Evolution theories	Creativity and innovation: Collaboration and communication:	Preparation of model of nucleotide and nucleoside. Preparation of model of initiation complex	Oral test Written test Presentation of given topic questions
AUGUST	*Human Health and Disease *Microbes in Human Welfare	Develop the process of observational, manipulative decision and investigatory skills in learners.	Experiment to show the breeding place of vectors.	Role play method Sub topic Life Cycle of Plasmodium	Random questioning of different types, worksheets
SEPTEMBER	REVISION *HALF YEARLY	critical thinking and problem solving, conceptual skill development.. assertion – reasoning and case study solving ability	Question bank Oral questioning Summarizing the lesson by mind mapping	sample paper, previous year question paper	Discussion of previous year question paper Half yearly exams
OCTOBER	Biotechnology : Principles and	Understand mechanism of Polymerase chain	Students will be made to write differences	Written test Lab activity Oral questioning	sharing of ideas and information to advance

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	processes Biotechnology and its Applications	reaction, difference between sparged and stirred tank bioreactor competencies developed in students: collaborative learning, critical thinking	between traditional and modern biotechnology.	Diagrams	scientific understanding, processes, theories and discoveries
NOVEMBER	*Organisms and Populations *Ecosystem *Biodiversity and Conservation	Understand and differentiate between organism attributes and population attributes. Understand mechanism of growth models and population attributes, Understand Recall and recognize Students are able to explain the importance of bio diversity for the existence of the entire life on the earth.	Teacher discusses the concept of productivity Projects on various topics of biodiversity	Students can also do some experiment to find out the impact of environmental stress determine the biodiversity.	Written test Lab activity Oral questioning MCQ practice Assertion-reason & case based , diagram based practice
DECEMBER	REVISION *FINAL EXAM	critical thinking and problem solving, conceptual skill development.. assertion – reasoning and case study solving ability	NCERT Reading, MCQ and various types of questions solving	sample paper, previous year question paper	Oral questioning MCQ practice Assertion-reason & case based , diagram based practice Final exam
JANUARY	REVISION *Pre Boards	Practice and learning	NCERT Reading, MCQ and various types of questions solving	sample paper, previous year question paper	Pre board exams

NAME OF THE SUBJECT TEACHER: Dr. NEERU THAKUR

SIGNATURE OF THE SUBJECT COORDINATOR: Dr. NEERU THAKUR