BIOLOGY - SYLLABUS FROM SEP 2023 - 2

MONTH	Week	Unit/Sections	Period	Exam Syllabus Topic Details Done / for Periods	Learning Outcomes/ Skills acquired	Activities (Formative assessment tools, projects, Visits)	Teaching Aids / Reference	Competencies and Values	MY IDENTITY	Cross curricular link	ARTIFICIAL INTELLIGENCE	Critical Thinking Questions- Descriptive	Critical Thinking Questions- Objective
APRIL	1	REPRODUCTION	7	Chapter 1 Introduction to Organisms around Universal Chapter 2 Sexual Reproduction in Flowering Plants	Analyse Flower – A Fascinating Part of Plant Reproduction Explore Reproduction – Humans and Bees Analyse Female Reproductive Component Pre-fertilization Explore Pollination and Events Evaluate Apomixis and Polyembryony	Impact a model on Green Shaping assistance to Reason female pollination.	*Smart board *Internet facility *Textbook *Research on google.	Competencies Collaboration, Critical thinking and creativity. Values Respect, Integrity, and Honesty	Research work on pollination			Flower is a fascinating part of plant reproduction, with its vibrant colors and pleasant aroma serving as a magnet for the sensitive pollinators. Do the presence of large number of chromosomes in an organism's cells enhance its reproductive fitness? Explain your reasoning. Are there a relationship between the size of an organism and its life span? Do the presence of number of ovary ensure fertilization?	Pollination is the transfer of pollen from the anther to the stigma of a flower. Which statement is true about pollination? a) Pollen grains are produced in the ovary. b) Self-pollination requires two different flowers. c) Wind-pollinated flowers have sticky pollen grains. d) Pollination occurs only in the morning. Which of the following statements about pollination is correct? a) Pollination is the process of fertilization of ovules. b) Pollination is the transfer of pollen from the anther to the stigma of a flower. c) Pollination occurs only in the morning. d) Pollination is the process of seed dispersal. Which of the following statements about pollination is correct? a) Pollination is the process of fertilization of ovules. b) Pollination is the transfer of pollen from the anther to the stigma of a flower. c) Pollination occurs only in the morning. d) Pollination is the process of seed dispersal.
	2	REPRODUCTION	8	Our Male Reproductive System The Female Reproductive System	Analyse Gametogenesis Assess Menstrual Cycle Evaluate Fertilization, Implantation Elaborate Pregnancy and Parturition Evaluate Contraception	Discover Identified diagnosis of gamete-producing Female and male reproductive system,organogenesis and spermatozoa	*Smart board *Internet facility *Textbook *Research on google.	Competencies Collaboration, Critical thinking and creativity. Values Respect, Integrity, and Honesty	Conducting sex gametogenesis	History-Evolution	Discover three dimensional shapes of chromosomes, and discuss of cylinder. The study may help scientists better understand how genes are organized in chromosomes, and how changes in chromosome shapes affect these genes. Are many spermatozoa are formed in human male? Do human discuss of sperm are	1.Gametogenesis is the process of the release of sperms from testes. 2.Spermatogenesis 3.Ovulation 4.Fertilization 5.Fertilization is a process in which a sperm and an egg combine to form a new cell.
APRIL	3	REPRODUCTION	8	Gametogenesis Menstrual Cycle Fertilization and Implantation Pregnancy and Parturition Embryonic Development Contraception and Lactation	Assess the gametogenesis process,Evaluate the menstrual cycle,Estimate fertilization and implantation process,Elaborate pregnancy and parturition developments	Discover Identified diagnosis of gamete-producing Female and male reproductive system,organogenesis and spermatozoa	*Smart board *Internet facility *Textbook *Research on google.	Competencies Collaboration, Critical thinking and creativity. Values Respect, Integrity, and Honesty		Mathematics-Mathematics and science problems Health-Learning Disorder, reproductive issues	Lab assistant Lab assistant and science problems Lab assistant Lab assistant Lab assistant