

D.A.V. PUBLIC SCHOOL, NEW PANVEL Plot No. 267, 268, Sector-10, New Panvel,

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SYLLABUS PLANNING (2019-20)

STD. XII SUBJECT: BIOLOGY

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
MARCH	08	UNIT VI:Reproduction Chapter-1: Reproduction in organisms. Chapter-2: Sexual Reproduction in flowering plants.	07 04	14
APRIL	22	UNIT VI:Reproduction Chapter-2: (Contd.) Sexual Reproduction in flowering plants. Chapter-3: Human reproduction Chapter-4: Reproductive Health	08 12 05	
JUNE	24	UNIT VII : GENETICS & EVOLUTION Chapter-1: Principles of Inheritance and Variation Revision for I Unit Test	11 05	18
JULY	26	I Unit Test UNIT VII: GENETICS & EVOLUTION Chapter-2: Molecular Basis of Inheritance Chapter-3: Evolution	06 16 06	
AUGUST	21	UNIT VIII: Biology and Human Welfare Chapter-1: Human health and diseases. Chapter -2: Strategies for Enhancement in Food Production. Chapter-3: Microbes in human welfare. UNIT IX: Biotechnology & its applications Chapter-1: Biotechnology: Principles and Processes	08 08 05	14

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
SEPTEMBER	16	Revision of I Term Exam I Term Examination & I Term Exam	18	
OCTOBER	18	UNIT IX: Biotechnology & its applications(Contd.) Chapter-2: Biotechnology and its Applications UNIT X: Ecology Chapter -1:	05	14
		Organisms and Populations Chapter- 2: Ecosystem	07	
		Chapter -3: Biodiversity and Conservation	05 03	
NOVEMBER	23	UNIT X:Ecology(Contd.) Chapter -3: Biodiversity and Conservation (contd.) Chapter-4: Environmental Issues Revision & Preparatory Exam	04 05 06 13	
DECEMBER	18	Preparatory Exam &Practical Exam Revision for Preliminary Exam.	10 08	
JANUARY	24	Revision for Preliminary Exam, Preliminary Exam &Board Practical Exam	24	
FEBRUARY	12	Revision for Board Exam	12	
TOTAL	212		229	70



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SYLLABUS PLANNING (2019-20) PRACTICAL

SUB: BIOLOGY STD: XII

	No. of	
Month	Periods For	Experiments
	Practical	
MARCH	-	
APRIL		
		SPOTTING: Experiment 1: Flowers adapted to pollination by different agencies (wind, insect). Experiment 2: Pollen germination on stigma through a permanent slide. Experiment 3: T.S. of blastula through permanent slides. Experiment 4: Identification of stages of gamete development i.e. T.S. testis and T.S. ovary through permanent slides (from any mammal). Experiment 5: Meiosis in onion bud cell or grass hopper testis through permanent slides. Experiment 6: Exercise on controlled pollination - Emasculation, tagging and bagging. Experiment 7: Identification of common disease causing organisms like Ascaris, Entamoeba, Plasmodium, ringworm through permanent slides or specimens. Comment on symptoms of disease that they cause. Experiment 8: Plants and animals found in aquatic conditions. Comment upon their morphological adaptations Experiment 9: Two plants and two animals found in xerophytic conditions. Comment upon their morphological adaptations. Experiment 10: Mendelian inheritance using seeds of different colour/sizes of any plant.
		Experiment 10:Prepared pedigree charts of genetic traits such as rolling of tongue,
		blood groups, widow's peak, colour blindness.

	No. of	
Month	Periods	Experiments
	For Practical	
JULY	08	CORE EXPERIMENTS
JOLI	08	Slide Preparation:
		Experiment 1: Study pollen germination
		on a slide/ Pollen germination on stigma.
		Experiment 2: Prepare a temporary
		mount of onion root tip to study mitosis.
		CORE EXPERIMENTS
		Minor Experiments:
		Experiment 3:(i) Collect and study soil
		from at least two different sites and study
		them for texture &pH .Correlate with the
		kinds of plants found in them. <u>Experiment 3:</u> (ii)Collect and study soil
		from at least two different sites and study
		them for moisture content.
		Experiment 3: (iii)Collect and study soil
AUGUST	08	from at least two different sites and study
		them for water holding capacity
		Experiment 4: (i)Collect and study water
		samples from at least two different sites
		and study them for pH ,clarity (particulate
		matter) and presence of any living organism.
		Experiment 5: Study the presence of
		suspended particulate matter in air at two
		widely different sites.
SEPTEMBER		I Term Practical Examination
		Major Experiments:
OCTOBER	08	Experiment 6: Study of plant population
		density by quadrate method.
		Experiment 7: Study of plant population
		frequency by quadrate method.
		Experiment 8: To study the effect of the
		different temperatures and three different pH on the activity of salivary amylase on
		starch.
NOVEMBER	04	Experiment 9:Isolate DNA from available
		plant material such as spinach, green pea
		seeds ,papaya etc
DECEMBER	06	Revision & Preparatory Practical
1451111		Examination
JANUARY	04	Revision& Preliminary Practical Exam
TOTAL	44	Revision for Board Practical Exam
TOTAL	44	