	Academic planner-2019-2020	7		
	Biology			
	CLASS -XII			
Date	Торіс	Mode of Assessm ent	No. Of Assignment/ HW	Activity
1/4/19-	Chapter-1	CIII		
15/4/19	Reproduction in organisms			
No.of davs-11	Asexual reproduction pre fertilization			
	events, sexual and asexual reproduction; asexual reproduction - binary fission, sporulation, budding, gemmule formation, fragmentation; vegetative propagation in plants. gamete transfer, Fertilization &	Assignm ent based on Chapter- 1 & 2	Assignment containing extra	
	post fertilization events		questions & from N.C.E.R.T	
	Chapter-2			
	Sexual reproduction in flowering plants			To study pollen germination on a slide in nutrient medium
	Structure of flower, Pre fertilization			
	events, stamen, microsporangium, pollen			
	grains, pistil, megasporangium & embryo			
	sac, pollination kinds & agents out breeding			
	devices, artificial hybridization, double			
	fertilization, post fertilization events,	-		
	apomixes & polyembryony.ignificance of seed dispersal and fruit formation.			
1/4/2019 - 15/4/2019	Chap. 3 Human reproduction			
No.of days-11	Female reproductive system,gametogenesis &			
	menstrual cycle			
	Chapter 3 (contd.)			
	Fertilization & implantation, Pregnancy &		Assignment containing extra	Study of flowers adapted to pollination by different agencies
	embryonic devpt. Parturition & lactation (elementary idea).		questions & from N.C.E.R.T	(Wind & animals)
	Chapter-4			
			Assignment containing extra	
	Reproductive health, problems & strategies,		questions & from N.C.E.R.T	
	population explosion& Birth control, medical			

	termination of pregnancy (MTP), STDs infertility. infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness).			
1/5/19 -	Chapter-5	UT I Ch		
15/5/19		1-3		
No.of days-11	Principles of inheritance & variation	Class Test	Assignment containing	Study Mendelian inheritance
	Mendel's laws ,Incomplete dominance		problem of genetics & 1 Assignment	inheritance using seeds
	Codominance, blood groups, inheritance thallesemia,pleiotropy, polygenic inheritance (elementary idea)		from TBQ of Chapter-5	of different colours size of any plant
	of two genes, chromosomal theory of			
	inheritance linkage & recombination, sex determination, mutation, genetic disorders			Study prepared pedigree charts of genetic traits such as
1/7/19- 15/7/19	Chapter-6			rolling of tongue,blood groups,widow's peek, colour blindness
No.of days-12	Molecular basis of inheritance			
	Introduction, DNA, search for genetic			
	material, RNA world, replication, transcription,			
	the genetic code, mutations			
	Chapter-6		Assignment on	
	translation, regulation of gene expression,		problem in genetics	Study of evolutionary history of man from internet
	human and rice genome project, DNA fingerprinting.			
-	Chapter 7		Assignment containing	
<u>31/7/2019</u> No.of days-14	Evolution		extra questions from ch-7	
	Evolution of life forms, evidences for			
	evolution, (paleontology, comparative anatomy, embryology and molecular evidences); Darwin's contribution, modern synthetic theory of evolution, brief account of evolution & origin &			
	adaptive radiation;evolution of man.			

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	Human health & diseases		Assignment	
	-		containing	
	Common diseases in humans, (malaria, dengue,		extra	
	chickengunia, filariasis, ascariasis,		questions	
	typhoid, pneumonia, common cold, amoebiasis,		from ch-8	
	ring worm) and their control			
	; immunity.			
1/8/2019 -	Chap.8 Contd.Basic concepts of		Assignment	Study of T.S of
15/8/2019	immunology - vaccines; cancer, HIV and AIDS;		containing	Blastula through
	Adolescence - drug and alcohol abuse.			permanent slide
	Allergies, AIDS, Cancer, Drugs & alcohol abuse.			
No.of	Chap. 9 Animal husbandry, management of farms		extra	
days-10	&		questions and	
	farm animals, animal breeding , bee keeping &		TBQ from ch-	
			9	
	single cell protein,			
	Biofortification, Apiculture and Animal husbandry.			
	culture.			
4.0/0/4.0	01.0.10.10			
16/8/19 -	Chapter 10			
31/8/19 No.of	Microbes in Human Welfare			
				To study the effect of the
days-13				different
				temperatures &
			A	3
	Eukaryotic cells, all the cell organelles,		Assignments	different pH on
			containing	the activity of
				salivary
				aqmylase on
				starch
	Microbes & Household products, Industrial		extra	
			questions and	
			TDO ()	
	Products, Antibiotics, Microbes & Sewage		TBQ from ch-	
			10	
	Treatment & Production of Bio-Gas.	Class		Excercise on
		Test		controlled
				pollination
				emasculation,bg
				ging
	Microbes as biocontrol agents & as			& tagging
	biofertilisers.		A	Durana
4 10 10 2 1 2		1	Assignments	Prepare
1/9/2019-	Revision for Half yearly Exams			
1/9/2019- 15/9/2019	Revision for Half yearly Exams		containing	temporary
	Revision for Half yearly Exams		containing	stained mount of
	Revision for Half yearly Exams		containing	stained mount of onion root tips &
	Revision for Half yearly Exams		containing	stained mount of onion root tips & study mitosis in
15/9/2019	Revision for Half yearly Exams			stained mount of onion root tips & study mitosis in them
15/9/2019 No.of	Revision for Half yearly Exams		extra	stained mount of onion root tips & study mitosis in
15/9/2019	Revision for Half yearly Exams			stained mount of onion root tips & study mitosis in them
15/9/2019 No.of days-10			extra questions and	stained mount of onion root tips & study mitosis in them
15/9/2019 No.of days-10 16/9/19 -	Revision for Half yearly Exams Half yearly exams	Half Year	extra questions and TBQ from ch-	stained mount of onion root tips & study mitosis in them
15/9/2019 No.of days-10 16/9/19 - 30/9/19		Half Year (1-10)	extra questions and	stained mount of onion root tips & study mitosis in them
15/9/2019 No.of days-10 16/9/19 -			extra questions and TBQ from ch-	stained mount of onion root tips & study mitosis in them

1/10/19-	Chapter11 Biotechnology:Principles &	Chap.1-	I	
15/10/19	processes Introduction & Revision	10		
No.of				
days-6				
			CW-1&	
			assignment	
			from chap. 12	
		Class		Isolation of DNA
		Test		from available plant , material such as spinach, green pea
				seeds, papaya etc.
	Chap. 11 contd. Principles of biotechnology, tools of rDNA technology			
	Chapter-12 Biotechnology & its applications		Assignments	Study the pH
	Chapter-12 Diotechnology & its applications		containing	water holding capacity of soil.,
	Biotechnological applications in agriculture application of biotechnology in health and agriculture: Human insulin and vaccine			
	production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals;			
	biosafety issues, bio piracy and patents.			
16/10/19 -	Chapter-13: Organisms and Populations		extra	the kinds of
31/10/19	Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth		questions and	plants found in them
	rate and death rate, age distributionOrganisms & its environment Populations growth,			
No.of days-11	Chapter -14	Class Test	Assignment containing	Collect water from different water bodies & study them for
	Ecosystem structure & function, productivity		extra questions and	pH, clarity & presence of any living organisms.
	decomposition, Energy flow ecological pyramids		TBQ from ch- 14	

	Ecological successions nutrient cycling, ecosystem			
4/44/40	services.			
1/11/19- 15/11/19	Chapter- 15			
No.of days-11	Biodiversity & conservation		Assignment	Study of plant population density by quadrat method
	Biodiversity types, Patterns,Loss of biodiversity endangered organisms, extinction, Red Data Book, biosphere reserves, national parks , sanctuaries and Ramsar sites			
	& its conservation			
				Study of plant population frequency by quadrat method.
16/11/19 -		Preboard		
30/11/19		xaminatio n I		
No.of days-13	Chapter 16		CW-1	Study the presence of suspended particulate matter in air at
	Environmental issues Air pollution and its control; water pollution and its control; agrochemicals and their effects; solid waste management; radioactive waste management; greenhouse effect and climate change ; ozone layer depletion; deforestation; any one case study as success story addressing environmental issue		Assignment	the two widely different sites.
	Air pollution & its control Water Pollution & its control			
	Deforestation			
	supplementary text Discussion of CBSE sample		Sample	
1/12/19 -	papers & other sample papers		papers,	
15/12/19			revision &	
No. of			problem	
days - 11			solving.	
16/12/19	Preboard Examination II	complete		
			1	1

Examination Schedule Unit Test I - 1,2 , 3 Half Yearly- Ch 1 to 10 Preboard Examination I ch. 1 to 15 Preboard Examination II complete syllabus