

**CLASS XII**  
**SUBJECT –BIOLOGY**  
**SESSION -2009-10**

MONTH	DATE	DAYS	TOPIC
			Unit I-REPRODUCTION
April	1-4	03	Reproduction in organisms sexual reproduction and asexual reproduction ,pre-fertilization events ,post – fertilization events, embryogenesis
April	6-10	03	Sexual reproduction in flowering plants , flower-A fascinating organ of Angiosperms.
April	13-18	06	Pre-fertilization –structures and events ,double fertilization ,Post-fertilization-structures and events ,pollination –kinds and agents of pollination , development of seeds and fruits , Apomixis and Polyembryony
April	20-25	06	Human reproduction –The male reproductive system , The female reproductive

			system , gametogenesis , Menstrual cycle fertilization and implantation , pregnancy and embryonic development , parturition and lactation .
April	27-30	03	Reproductive health – Problems and strategies , population explosion and birth control , Medical termination of pregnancy , Sexually transmitted diseases , Infertility.
			SUMMER VACATIONS- MAY2009-JUNE2009
			UNIT II –GENETICS AND EVOLUTION
July	1-4	04	Principles of inheritance – Mendel’s laws of inheritance, inheritance of one gene and two genes , chromosomal theory of inheritance , linkage and recombination
July	6-11	05	Sex determination in humans –mutations , genetic disorders , chromosomal disorders , pedigree analysis .

July	13-18	06	Molecular basis of inheritance-The DNA –the search for the genetic material , transforming principle , RNA world , replication and its experimental proof.
July	20-25	06	Transcription –Types of RNA and the process of transcription , Genetic code , Mutations and genetic code, t-RNA – the Adapter molecule
July	27-30 1-8-09	05	Translation , regulation of gene expression , the Lac operon , Human genome project , DNA finger printing.
Aug	3-8	05	Evolution- theories and evidences .
Aug	10-13	04	Evolution(contd) adaptive radiation , Hardy-Weinberg principle , origin and evolution of man.
			UNIT III –BIOLOGY IN HUMAN WELFARE
Aug	17-22	06	Human health and disease – Common human diseases , immunity ,

			Active and Passive immunity, vaccination and immunization, allergies , immune system in the body.
Aug	24-28	05	AIDS , Cancer , Drugs and Alcohol abuse , addiction and dependence , effects of drug / alcohol , prevention and control
Aug	29-31	03	Strategies for enhancement in food production –animal husbandary , animal breeding Bee keeping , fisheries . Plant breeding ,single cell protein , tissue culture.
Sep	1-5	04	Microbes in human welfare – Microbes in household products , in industrial products , in sewage treatment and production of Bio-gas, microbes as Biocontrol agents and as Biofertilizers .
Sep	4-9-09		Ist CCEP EXAM
Sep	7-9	03	Revision of First Term syllabus
Sep	10-18	09	Ist Terminal Exam

Sep	19-09-09 28-09-09		AUTUMN -BREAK
Oct	1-3	03	UNIT IV BIOTECHNOLOGY
			Principles and processes - tools of recombinant of DNA technology , cloning vectors , PCR (polymerase chain reaction)
Oct	5-10	06	Biotechnology and its applications in agriculture and medicine
Oct	12-16	05	GM(genetically modified organisms), gene therapy, transgenic animals , ethical issues.
			UNIT V –ECOLOGY
Oct	19-24	06	Organisms and populations – factors effecting a population , population growth – population interaction.
Oct	26-31	05	Ecosystem- structure and function , productivity , decomposition, energy flow , ecological pyramids, ecological succession.
Nov	2-7 ,9,10	07	Nutrient cycles carbon cycle, Phosphorus cycle , eco-system servies .

Nov	11-13	03	Biodiversity and conservation
			Patterns of Bio-Diversity
			Loss Of Biodiversity and causes
NOV	16-21	06	Bio-diversity conservation
			In Situ –Ex Situ
Nov	23-27&30	05	Environmental Issues
Dec	1-5	05	Revision Of Second Term Syllabus
Dec	11.12.09		IICCEP EXAM
	07.12.09-14.12.09	05	Revision of second term syllabus
Dec	15-12-09 22-12-09		Second terminal examination
Dec	23-12-09		Discussion of second term paper
Dec	24-12-09		Last working day
Dec	25-12-09	31-12-09	Winter break
Jan	15-01-10 25-01-10		Pre-Board Exarm

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