

Syllabus – Biology (XII)

One Paper

Time: 3 Hours

Marks: 70

Unit	Marks
6. Reproduction	14
7. Genetics and human welfare	18
8. Biology and human welfare	14
9. Biotechnology and its applications	10
10. Ecology and environment	14
Total	70

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CLASS XII (2010-2011)

BIOLOGY

S NO.	WEEK	DAYS	SUB-TOPICS
1	1-4-10 to 3-4-10	02	UNIT- 1 REPRODUCTION Reproduction in organisms: Asexual and sexual reproduction sexual reproduction in flowering plants: Structure of flower,
2	5-4-10 to 9-4-10	05	Pollination, fertilization, development of seed and fruits, apomixes and polyembryony.

3	12-4-10to 17-4-10	06	Human reproduction : Reproduction system in male and female,menstrual cycle, production of gametes, fertilization, implantation, embryo development, pregnancy, parturition and lactation.
4	19-4-10 to 24-4-10	06	Reproductive Health: Problems and strategies, population and birth control contraception and MTP; sexually transmitted diseases, infertility. UNIT-II GENETICS AND EVOLUTION –Mendelian inheritance.
5	26-4-10to 1-5-10	06	Chromosome theory of inheritance, deviations from Mendelian ratio (gene interaction-incomplete dominance, co- dominance, multiple alleles). Sex determination in human beings: XX ,XY.
6	3-5-10 to 7-5-10	05	Linkage and crossing over. Inheritance pattern: Mendelian disorders and chromosomal disorder in humans.
Summer vacation 10-05-2010 to 25-06-2010			
7	26-6-10 & 28-6-10	1+6	DNA and RNA, search for

	To 3-7-10		genetic material,
8	5-7-10 to 9-7-10	5	Replication, transcription, genetic code,
9	12-7-10 to 17-7-10	6	Translation gene expression and regulation, Genome and Human DNA fingerprinting.
10	19-7-10 to 24-7-10	6	Evolution: Origin of life theories and evidences, adaptive radiation, mechanism of evolution, origin and evolution of man.
11	26-7-10 to 31-7-10	6	UNIT –III BIOLOGY AND HUMAN WELFARE Basic concepts of immunology, vaccines. Pathogens, Parasites Cancer and AIDS Adolescence and drug / alcohol abuse
12	2-8-10 to 7-08-10	6	Plant breeding, tissue culture, single cell protein, food production, animal husbandry.
13	9-8-10 to 13-8-10	5	Mircobes in household food processing, industrial production, sewage treatment, energy generation.
14	16-8-10 to 21-8-10	6	Biocontrol agents and biofertilizers. UNIT-IV BIOTECHNOLOGY AND ITS APPLICATION Principles and Processes;

15	23-8-10 to 28-8-10	6	Recombinant DNA technology;
16	30-8-10 to 4-9-10	5	Application on Health and Agriculture;
17	6-9-10 to 10-9-10	4	Genetically modified (GM) organisms ; biosafety issues.
	8-9-10 -1 st CCEP		
	First Term Exam 13-9-2010 to 20-9-2010		
18	21-9-10 to 25-9-10	5	Discussion of I term paper and Investigatory project
19	27-9-10 to 30-9-10	4	Unit V Ecology & Environment Organisms & population: Populationsq
	1-10-10 to 17-10-10	Closure of school Due to comman wealth Games (08-10-2010 to 16-10-2010 Autmn Break)	
20	18-10-10 to 23-10-10	5	Ecological Adaptations
21	25-10-10 to 30-10-10	6	Ecosystems: components, types, enrgy flow, nutrient cycling and ecosystem services.
22	1-11-10 to 6-11-10	5	Diversity and conservation for Biodiversity, its importance and conservation, Biosphere reserves
23	8-11-10 to 12-11-10	5	National parks and sanctuaries. Environmental issue.
24	15-11-10 to 20-11-	5	Environmental issue (to be

	10		continued)
25	22-11-10 to 27-11-10	6	Revision
26	29-11-10 to 4-12-10	6	Revision
27	6-12-10 to 10-12-10	4(10-12-2010 second CCEP)	Revision
28	13-12-10 to 22-12-10	Second Term Exam	
29	23-12-10 to 24-12-10	2	Discussion of and term paper
30	27-12-10 to 7-1-11	Winter break	
31	10-1-11 to 15-1-11	6	Revision from Q bank
32	17-1-11 to 22-1-11	6	Pre – Boards
33	24-1-11to 29-1-11	5	Discussion of pre -board Q. paper
34	31-1-11 to 5-2-11	6	Final Practical
35	7-2-11 to 11-2-11	5	Final Practical
36	14-2-11 to 19-2-11	6	Mock Test