## KASIDIH HIGH SCHOOL- A Unit of JEM Foundation SYLLABUS PLAN FOR YEAR 2010-11

Subject :- BIOLOGY Std :- XII

SI No	Name of Chapter	Topics	No of periods required chapterwi se
1.	REPRODUCTION IN	1.1 A Sexual Reproduction	02
	ORGANISMS	1.2 Sexual Reproduction	05
2.	SEXUAL REPRODUCTION	2.1 Flower - A Fascinating organs of Angiosperms	02
	IN FLOWERING	2.2 Pre Fertilisation : Structure and Events.	04
	PLANTS	2.3 Double Fertilisation	01
		2.4 Post : Fertilisation : Structures and Events	03
		2.5 Apomixis and Polyembryony.	01
3.	HUMAN		
	REPRODUCTION	3.1 The Male Reproductive System	02
		3.2 The Female Reproductive System	02
		3.3 Gametogenesis.	02
		3.4 Menstrual Cycle.	01
		3.5 Fertilisation and Implantation.	01
		3.6 Pregnancy and Embryomic Development	01
		3.7 Parturition and Lacklation.	01
		3.7 Tartarition and Edeklation.	101
4.	REPRODUCTIVE	4.1 reproductive Health - Problems and Strategies	01
	HEALTH	4.2 Population Explosion and Birth control.	02
		4.3 Medical Termination of Pregnancy.	01
		4.4 Sexually Transmitted Diseases.	01
		4.5 Infertility.	01
5.	PRINCIPLES OF	5.1 Mendel's Laws of Inheritance.	02
	INHERITANCE AND	5.2 Inheritance of one Gene.	05
	VARIATION	5.3 Inheritance of Two Genes.	04
		5.4 Sex Determination .	01
		5.5 Mutation.	01
		5.6 Genetic Disorders.	02
			1
6.	MOLECULAR BASIS	6.1 The DNA.	02
-	OF INHERITANCE	6.2 The Search for Genetic Material.	02
		6.3 RNA World.	01
		6.4 Replication.	02
		6.5 Transcription.	02
		6.6 Genetic Code.	02
		6.7 Translation.	01
			02
		6.8 Regulation of Gene Expression.	
		6.9 Human Genome Project.	01
	1	6.10 DNA FingerPrinting.	02

EVOLUTION	7.1 Origin of Life	02
		01
	7.3 What are the Evidences for Evolution?	02
	7.4 What is Adaptive Radiation?	01
		01
		01
		02
		02
		02
	713 Origin and Everation of Flam	"-
HUMAN HEALTH	8.1 Common Diseases in Human.	05
		03
		02
		02
		03
	ols brugs and AlconorAlbuse	
STREATEGIES FOR	9.1 Animal Husbandary	03
	9.2 Plant Breeding	03
<b>-</b>		02
	3.3 Single Sen Process	02
- Nobodilan	9.4 Tissue Culture.	02
	ST. TISSUE GUILGIEI	"-
MICROBES IN	10.1 Microbes in Household Products.	01
		-
WELFARE	10.2 Microbes in Industrial Products.	02
		02
	10.4 Microbes in Production of Biogas.	01
	10.5 Microbes as Biocontrol Agents.	02
		01
BIOTECHNOLOGY:	11.1 Principles of Biotechnology.	02
BIOTECHNOLOGY : PRINCIPLES AND	11.1 Principles of Biotechnology. 11.2 Tools of Recombinant DNA Technology.	02
PRINCIPLES AND	11.2 Tools of Recombinant DNA Technology.	06
	<ul><li>11.2 Tools of Recombinant DNA Technology.</li><li>11.3 Processes of Recombinant DNA</li></ul>	
PRINCIPLES AND	11.2 Tools of Recombinant DNA Technology.	06
PRINCIPLES AND	<ul><li>11.2 Tools of Recombinant DNA Technology.</li><li>11.3 Processes of Recombinant DNA Technology.</li></ul>	06
PRINCIPLES AND PROCESSES.	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in</li> </ul>	06 04
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> </ul>	06 04
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in</li> </ul>	06 04 03
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> </ul>	06 04 03
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in</li> </ul>	06 04 03 04
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> </ul>	06 04 03 04 02
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> <li>12.4 Ethical Issues.</li> </ul>	06 04 03 04 02
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND ITS APPLICATIONS.	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> </ul>	06 04 03 04 02 02
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND ITS APPLICATIONS.  ORGANISMS AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> <li>12.4 Ethical Issues.</li> <li>13.1 Organism and its Environment.</li> </ul>	06 04 03 04 02 02 02
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND ITS APPLICATIONS.  ORGANISMS AND	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> <li>12.4 Ethical Issues.</li> <li>13.1 Organism and its Environment.</li> <li>13.2 Populations.</li> </ul>	06 04 03 04 02 02 02
PRINCIPLES AND PROCESSES.  BIOTECHNOLOGY AND ITS APPLICATIONS.  ORGANISMS AND POPULATIONS	<ul> <li>11.2 Tools of Recombinant DNA Technology.</li> <li>11.3 Processes of Recombinant DNA Technology.</li> <li>12.1 Biotechnology Applications in Agriculture.</li> <li>12.2 Biotechnology Applications in Medicine.</li> <li>12.3 Transgenic Animals.</li> <li>12.4 Ethical Issues.</li> <li>13.1 Organism and its Environment.</li> </ul>	06 04 03 04 02 02 02
	HUMAN HEALTH AND DISEASE  STREATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION.  MICROBES IN HUMAN	7.2 Evolution of Life Forms - A Theory. 7.3 What are the Evidences for Evolution? 7.4 What is Adaptive Radiation? 7.5 Biological Evolution. 7.6 Mechanism of Evolution. 7.7 Hardy- Weinberg Principle. 7.8 A Brief Account- of Evolution 7.9 Origin and Evolution of Man.  HUMAN HEALTH 8.1 Common Diseases in Human. AND DISEASE 8.2 Immunity 8.3 AIDS 8.4 Cancer 8.5 Drugs and Alcohol Abuse  STREATEGIES FOR 9.1 Animal Husbandary ENHANCEMENT IN 9.2 Plant Breeding FOOD PRODUCTION. 9.4 Tissue Culture.  MICROBES IN HUMAN 10.1 Microbes in Household Products.

		14.4 Energy Flow.	02
		14.5 Ecological Pyramids.	02
		14.6 Ecological Succession.	02
		14.7. Nutrient cycling.	02
		14.8 Ecosystem Services.	01
15.	BIODIVERSITY AND	15.1 Biodiversity	04
	CONSERVATION	15.2 Biodiversity Conservation	03
16.	ENVIRONMENTAL	16.1 Air pollution and its control.	02
	ISSUES	16.2 Water Pollution and its control.	02
		16.3 Solid Wastes.	01
		16.4 Agro-Chemicals and their Effects.	01
		16.5 Radioactive Wastes.	01
		16.6 Greenhouse Effects and Global	02
		Warming.	
		16.7 Ozone Depletion in the Stratosphere.	01
		16.8 Degradation by Improper Resource Utilisation and Maintence.	02
		16.9 Deforestation.	01

TOTAL NUMBERS OF PERIODS [] 180

## KASIDIH HIGH SCHOOL- A Unit of JEM Foundation SYLLABUS PLAN FOR YEAR 2010-11

Subject :- BIOLOGY Std :- XI

SI No	Name of Chapter	Topics	No of periods required chapterwi se
1.	DIVERSITY IN LIVING	Diversity of living Organism	25
	WORLD	Classification of the living organism- Five of kingdom classification, major groups & principle of classification in each kingdom	06
		Systematical and binomial system of classification.	03
		<ul> <li>Salient feature of animals nonchovdates upto phykem level &amp; ehordals upto clan level.</li> </ul>	08
		<ul> <li>Saliant features of plants</li></ul>	08
02.	CELL : STRUCTURE AND FUNCTION	Cell Cell theory, pro and eulcargotic cel cell wall,memorane & cell organelles, (Plastids, mitochondui do plasmic retriculum, Galgisodies/ dictyosomes, ribosomes bysocomes, vacuoles centhioles) and Nuclear Organisation.	18
		Cell division Milisin, Meiosin cell cycle.	06
		<ul> <li>Basic chemical constitutients of living bodies-&gt; Carbohydrates potosium, liquids &amp; Nyclear aid- structure &amp; functions.</li> </ul>	10
		Enzymes Types, Propaties and functions.	06
03	STRUCTURSAL ORGANISATION	Tisue Defination structure in plants and animals.	30
	IN ANIMAL & PLANTS	<ul> <li>Flowering Plants         Morphology Anatomy and functions of different plants:- Roots item, leaf inflorescences, flower fruit &amp; seed.     </li> </ul>	15
		<ul> <li>Animals         Morphology, Anatomy and functions in different system &amp; annelid (earthroom) an insect (coucroes) and an amphibiah (flog)     </li> </ul>	15
04.	PLANT	Water relations movements of water,	45
	PHYSIOLOGY.	food ,Nutrients & gases.	03
		Mineral Nutrition	03
		Respiration photo synthears.	08

		Plant growth & Development.	06
05.	HUMAN PHYSIOLOGY	Digestion & Absorption	04
		Breathing and respiration.	04
		Body fluids & circulation	04
		Excretory products & Elimination.	04
		Locomotion & movements.	03
		<ul> <li>Neural control and co-ordination chemical co-ordination &amp; regular.</li> </ul>	06
		•	