

Unit	Session	Topics
Evolution Unit 4	1	Concept of Evolution
	2	A brief account of Origin of earth
	3	A brief account of Origin of life
	4	Theories of Organic Evolution- Lamarckism
	5	Darwinism
	6	Weismanism
	7	Devries Theory
	8	Neo Darwinism
	9	Isolation, Mutation, Gene flow, Genetic Drift and Speciation
Revision	10,11,12	Revision and question paper discussion

#### Course Plan- Taxonomy

Unit	Session	Topics
Plant Breeding Unit 3	1	A brief history, Aims and objectives of plant breeding
	2	Techniques in plant breeding
	3	Types of hybridization
	4	Hybrid vigour
	5	Hybrid Seed production
	6	Germplasm maintenance
	7	Pollen banks
	8	Quarantine Measures.
	9	Plant breeding work done in India: - paddy and cotton.
Revision	10,11,12	Revision and Question Paper

#### Course Plan- CELL BIOLOGY AND MOLECULAR BIOLOGY

Unit	Session	Topics
Gene Concept Unit-4	1	Gene structure, action
	2	One gene-one polypeptide concept
	3	The central dogma of Molecular Biology
	4	Genetic code
	5	Protein Synthesis Transcription
	6	RNA splicing
	7	Translation
	8	Gene regulation in prokaryotes
	9	Gene regulation in Eukaryotes
	10	Transposable elements in prokaryotes
	11	Transposable elements in Eukaryotes
	12	Barbara Mc Clintok experiment
Revision	13,14,15	Revision and Question Paper