

Contents

Unit 1	
Agriculture	11
Unit 2	
Soil Structure	16
Unit 3	
Soil Chemicals and Plant Nutrition	24
Unit 4	
Soil Classification	32
Unit 5	
Water in the Soil and Plants	39
Unit 6	
The Seed	45
Unit 7	
Flower Morphology	52
Unit 8	
Stem Structure	61
Unit 9	
Plant Reproduction	69
Unit 10	
Cell Reproduction	75

Unit 11	
Asexual Reproduction	83
Unit 12	
Grafting and Budding	90
Unit 13	
Hybrid Corn	97
Unit 14	
Fruits	106
Unit 15	
The Cereals	114
Unit 16	
Legumes	121
Unit 17	
Root Crops	129
Unit 18	
Plant Diseases	136
Unit 19	
Stages in the Development of Plant Diseases	143
Unit 20	
Virus Diseases in Plants	149
Unit 21	
Fungi	155
Unit 22	
Bacterial Soft-rot	164
Unit 23	
Control of Plant Diseases with Chemicals	171
Unit 24	
Weeds	179

Unit 25	
Arthropoda: The Case of Insects	186
Unit 26	
The Life Cycle of Insects	192
Unit 27	
Tillage	199
Unit 28	
Inorganic Fertilizers	207
Unit 29	
Organic Fertilizers	215
Unit 30	
Drainage and Irrigation	222
Unit 31	
Soil Erosion	233
Unit 32	
Wetlands	241
Unit 33	
Beef Cattle.	247
Unit 34	
Dairy Cattle	255
Unit 35	
Food Processing	262
Unit 36	
Farm Management	274
Glossary	281
Bibliography	305