

CONTENTS

Introduction	ix
Unit 1 Introductory Microscopic Study	1
Unit 2 Structural and Functional Units of Higher Animals	7
Unit 3 The Exchange of Materials Between Cells and the Environment	9
Unit 4 Leaves	12
Unit 5 Roots	19
Unit 6 Stems	25
Unit 7 Plant Functions	35
Unit 8 An Introduction to the Frog, a Representative Vertebrate	38
Unit 9 Foods and Digestion	45
Unit 10 The Circulatory System	51
Unit 11 The Urogenital System of the Frog	59
Unit 12 Mitosis and Meiosis	61
Unit 13 Development in animals	64
Unit 14 Sense Organs and the Nervous System	69
Unit 15 Some Functions of the Nervous System and Muscles	77
Unit 16 Algae	81
Unit 17 Fungi	89
Unit 18 Mosses and Liverworts	95
Unit 19 Ferns	99
Unit 20 The Pine	107
Unit 21 Reproduction in the Flowering Plants	113
Unit 22 Classification of Animals	123
Unit 23 Protozoans	131
Unit 24 Simple Multicellular Animals	135
Unit 25 The Earthworm	138
Unit 26 The Crayfish	145
Unit 27 Introduction to Genetic Studies	153
Unit 28 Problems in Genetics	156
Unit 29 Adaptations	158
Unit 30 Adaptations for Parasitic Living	162
Unit 31 Adaptations for Parasitic Living the fungus Causing Wheat Rust	165
Unit 32 Evidences of Evolution	167
Appendix	169