

CONTENTS

SECTION 1 THE BODY AS A WHOLE

Unit 1	Introduction to the Structural Units	1
Unit 2	Cells	4
Unit 3	Tissues	7
Unit 4	Organs and Systems	10
	Self-Evaluation	12



SECTION 2 THE BODY FRAMEWORK

Unit 5	Introduction to the Skeletal System	14
Unit 6	Structure and Formation of Bone	18
Unit 7	Parts of the Skeleton	21
Unit 8	Injuries and Diseases of Bones and Joints	25
	Self-Evaluation	27

SECTION 3 BODY MOVEMENT

Unit 9	Introduction to the Muscular System	28
Unit 10	Attachment of Muscles	30
Unit 11	Principal Skeletal Muscles	32
Unit 12	Abnormal Muscular Conditions	35
	Self-Evaluation	37

SECTION 4 TRANSPORT OF FOOD AND OXYGEN

Unit 13	Introduction to the Circulatory System	38
Unit 14	The Heart	41
Unit 15	Function and Path of General Circulation	45
Unit 16	Pulmonary Circulation	49
Unit 17	Blood Vessels	51
Unit 18	The Blood	54
Unit 19	Lymphatic System	59
Unit 20	Disorders of the Circulatory System	62
	Self-Evaluation	65

SECTION 5 BREATHING PROCESSES

Unit 21	Introduction to the Respiratory System	67
Unit 22	Respiratory Organs and Structures	69
Unit 23	Mechanics of Breathing	72
Unit 24	Respiratory Disorders	74
	Self-Evaluation	77

SECTION 6 DIGESTION OF FOOD

Unit 25	Introduction to the Digestive System	79
Unit 26	Digestion in the Stomach	83
Unit 27	Digestion in the Small Intestine.....	86
Unit 28	The Large Intestine	89
Unit 29	Disorders of the Digestive System.....	91
	Self-Evaluation	93

SECTION 7 ELIMINATION OF WASTE MATERIALS

Unit 30	Introduction to the Excretory System	95
Unit 31	Urinary System	97
Unit 32	The Skin	101
Unit 33	Disorders of the Excretory System	103
	Self-Evaluation	106

SECTION 8 HUMAN REPRODUCTION

Unit 34	Introduction to the Reproductive System.....	108
Unit 35	The Organs of Reproduction.....	110
Unit 36	Disorders of the Reproductive System	115
	Self-Evaluation	117

SECTION 9 REGULATORS OF BODY FUNCTIONS

Unit 37	Introduction to the Endocrine System	118
Unit 38	Pituitary Gland	120
Unit 39	The Thyroid and Parathyroid Glands	123
Unit 40	Functions of Adrenal Glands and Gonads	125
Unit 41	The Pancreas	127
Unit 42	Endocrine Gland Disorders	129
	Self-Evaluation	132

SECTION 10 COORDINATION OF BODY FUNCTIONS

Unit 43	Introduction to the Nervous System	133
Unit 44	The Central Nervous System: Brain and Spinal Cord	135
Unit 45	The Peripheral and Autonomic Nervous Systems	138
Unit 46	Special Sense Organs – Eye and Ear	141
Unit 47	Diseases of the Nervous System.....	145
	Self-Evaluation	148

SECTION 11 CARE OF THE BODY SYSTEMS

Unit 48	Practices for Health Maintenance	150
	Glossary	155
	Metric System Equivalents	160
	Index	162