Contents

Foreword 7

Introduction 9

Chapter 1: **Modern Education and the Challenge of Change** 12

- Education for coping with change 12
- Educational needs of adults 14
- Education and early childhood 14
- Genuine educational equality 15
- Lifelong education 16
- The role of psychology 16
- Structure of the present text 18

Chapter 2: **Basic Concepts in Lifelong Education** 19

WHAT IS LIFELONG EDUCATION? 19
- Difference from adult education 19
- Traditional role of school 20
- Lifelong education 21

WHY LIFELONG EDUCATION? 22
- Equity 22
- Economic considerations 23
- Social factors -- the changing role of the family 25
- Social factors -- changing social roles 25
- Technological change 26

Vocational factors 27
Needs of adults 28
Needs of young children 29

A CHANGED CONCEPTUALIZATION OF EDUCATION 31
The role of school 31
Primacy of schooling 32
The contrary view -- vertical and horizontal integration 33

Chapter 3: **Lifelong Education and Psychology** 36

EDUCATION, SCHOOLING, AND LEARNING 36
Education and learning 36
Schooling and learning 36
Education and schooling 37
The concept of learning 38
Lifelong education and lifelong learning 39

PSYCHOLOGICAL BASIS OF EDUCATION 40
Assumptions and beliefs underlying schooling 40
Psychological factors in the classroom 40
Psychological factors in educational goals 42
Educational goals in recent times 43

EVALUATING LIFELONG EDUCATION 44
Education and ideology 44
Problems of evaluating curricula 45
Lifelong education and psychological knowledge 47
Key concepts 49
Structure of the analysis 50

Chapter 4: **The Persistence of Learning throughout Life** 53

PSYCHOLOGICAL ASSUMPTIONS OF CURRENT EDUCATIONAL ORGANIZATION 53

INTELLIGENCE AND AGE 54
The growth of intellectual abilities 54

Task-specificity and the growth of abilities 56
Causes of task-specific deterioration with age 58
Role of motivation and attitude 59
Role of speed 60
Effects of education 61
Longitudinal studies of age and intellectual functioning 63
Shifting baseline hypothesis 65
Possible reasons why a base-line shift may occur 68
Reasons for intergenerational changes 69

LEARNING OUTSIDE CONVENTIONAL SCHOOL AGES 70
Learning prior to school age 70
Learning beyond conventional school age 73
Factors inhibiting continued learning in adults 76

IMPLICATIONS FOR THE CONCEPT OF LIFELONG EDUCATION 78

Chapter 5: **The Vertical Integration of Intellectual Functioning** 79

COGNITIVE FUNCTIONING AND AGE 79
Styles of intellectual functioning 79
Differentiation of abilities 81
"Fluid" versus "crystallized" intelligence 82

STYLE OF COGNITIVE FUNCTIONING 84
Cognitive styles 84
Cognitive styles and the teacher 85

THE COURSE OF COGNITIVE GROWTH 86
Piaget and the development of intelligence 87
Vygotsky's emphasis on the role of language 88
Bruner and the building of one's own "reality" 91

IMPLICATIONS FOR LIFELONG EDUCATION 93
Vertical integration of development 93
Implications for classroom organization 94

Chapter 6: **Integration of Social, Motivational and Affective Development** 95

CONCEPTS IN SOCIO-AFFECTIVE DEVELOPMENT 95
The socio-affective domain 95
Horizontal integration of socio-affective functioning 95
Vertical integration 97
The curve of life 97
Erikson's stage theory 98
Havighurst and "developmental tasks" 99
Adulthood as a stage of life 99

DEVELOPMENT DURING THE DIFFERENT STAGES OF LIFE 100
Social roles 100
Aspirations, goals and rewards 102
Motivation 102
Interaction in socio-affective development 103

FACTORS INFLUENCING SOCIO-AFFECTIVE DEVELOPMENT 104
Nature versus nurture 104
Effects of environmental factors 106
The economic environment and psychological growth 107
Lifelong education and the work environment 107
The social environment 108
Lifelong education and the cultural environment 110
The family 111
Lifelong education and the family 112

SCHOOLING AND SOCIO-AFFECTIVE DEVELOPMENT 113
School as a socializing agency 113
Loss of confidence in the school 114
Schooling and socio-affective functioning 114
Socio-affective development and lifelong education 115

Chapter 7: **Implications of Lifelong Education for Curriculum** 116

THE LIFELONG LEARNER 116

CAN SCHOOL DEVELOP LIFELONG LEARNERS? 117
Environment and psychological development 119
Plasticity, critical periods and interaction 120
Modes of teacher influence 122
Importance of non-cognitive and non-school factors 123

IMPLICATIONS OF LIFELONG EDUCATION FOR "CURRICULUM" 123
Curriculum for the very young 124
Curriculum for people beyond conventional school age 126
Curriculum for work 127
Curriculum for life itself 128

SCHOOL CURRICULUM IN A LIFELONG EDUCATION SETTING 129
Survival of schooling 129
Curriculum and personal development 130
Cognitive development and lifelong education 131

ROLE OF TEACHERS IN LIFELONG EDUCATION 132
The teacher as co-learner 132
The teacher as guide and facilitator 133
Guidance and technology and the teacher's role 133
Broadened conceptualization of the teacher 134

CLASSROOM IMPLICATIONS OF LIFELONG EDUCATION 135
Educational ideals versus classroom practice 135
A three-dimensional analysis of curriculum 139

Chapter 8: **Criticisms and Future Prospects** 149

LACK OF NOVELTY 149
Old wine in new bottles 149
The unifying role of recent theory 150

LACK OF A RIGOROUS BASIS 151
Unnecessary sentimentality 151

Failure to define key concepts 152
Failure to provide empirical evidence 152

FAILURE TO DEAL WITH THE ISSUES 153
Failure to come to grips with the real problem 153
Failure to deal adequately with economic issues 153

LIFELONG EDUCATION AND "THE ESTABLISHMENT" 156
Lifelong students and perpetual dependency 156
Vested interests 157

UTOPIANISM 158
Lifelong education as a radical concept 158
Idealized model of man 159
Role of work 160
Faith in the power of school 160

FUTURE NEEDS AND PROSPECTS 161
Responding constructively to criticism 161
Necessary further research 163
The prospects for lifelong education 164

References 166

Index 185