

Contents

	Preface	vii
	Clinical Perspectives	viii
	Panel of Consultants	ix
	Student Consultants	ix
	Acknowledgement	xi
1	EMBRYOLOGY	1
2	CEREBRAL TOPOGRAPHY	7
3	MIDBRAIN, HINDBRAIN, SPINAL CORD	30
4	MENINGES	45
5	BLOOD SUPPLY OF THE BRAIN	55
6	NEURONS AND NEUROGLIA: OVERVIEW	70
7	ELECTRICAL EVENTS	83
8	TRANSMITTERS AND RECEPTORS	93
9	PERIPHERAL NERVES	112
10	INNERVATION OF MUSCLES AND JOINTS	120
11	INNERVATION OF SKIN	129
12	ELECTRODIAGNOSTIC EXAMINATION	134
13	AUTONOMIC NERVOUS SYSTEM AND VISCERAL AFFERENTS	148
14	NERVE ROOTS	165
15	SPINAL CORD: ASCENDING PATHWAYS	176
16	SPINAL CORD: DESCENDING PATHWAYS	186
17	BRAINSTEM	198
18	THE LOWEST FOUR CRANIAL NERVES	216
19	VESTIBULAR NERVE	223
20	COCHLEAR NERVE	229
21	TRIGEMINAL NERVE	234
22	FACIAL NERVE	240
23	OCULAR MOTOR NERVES	245
24	RETICULAR FORMATION	253

CONTENTS

25	CEREBELLUM	267
26	HYPOTHALAMUS	277
27	THALAMUS, EPITHALAMUS	284
28	VISUAL PATHWAYS	289
29	CEREBRAL CORTEX	299
30	ELECTROENCEPHALOGRAPHY	313
31	EVOKED POTENTIALS	323
32	HEMISPHERIC ASYMMETRIES	331
33	BASAL GANGLIA	342
34	OLFACTORY AND LIMBIC SYSTEMS	352
35	CEREBROVASCULAR DISEASE	377
	Glossary	392
	Index	406