

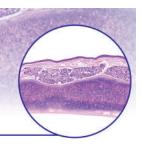
## Contents

Preface to the Fourth Edition	
Preface to the First Edition	vi
Competency Index	ix

	Topics	Page No.	Signature
1.	Microscope	2	
2.	Epithelium	4	
3.	Connective Tissue	18	
4.	Skeletal Tissue: Cartilage and Bone	26	
5.	Muscular Tissue	34	
6.	Nervous Tissue	38	
7.	Blood Vessels	50	
8.	Lymphatic Organs	54	
9.	The Glands	60	
10.	Integumentary System	64	



	Topics	Page No.	Signature
11.	Respiratory System	70	
12.	Digestive System: Oesophagus and Stomach	74	
13.	Digestive System: Small and Large Intestines	78	
14.	Liver, Gall Bladder and Pancreas	86	
15.	Urinary System	92	
16.	Male Reproductive System	98	
17.	Female Reproductive System	106	
18.	Endocrine Glands	120	
19.	Organs of Special Senses	128	
20.	Staining: Haematoxylin-Eosin and Key to Identification of Histological Slides	138	



## Competency Index

Competency Based Undergraduate Curriculum Topics: Chapter and Page-Wise Coverage

Competency	Competency title	Chapter number	Page number
AN 9.2	Describe and draw the microanatomical features of mammary gland.	17	114, 115
AN 25.1	Describe and draw the microanatomical features of trachea and lung.	11	70–72
AN 43.2	Describe and draw the microanatomical features of pituitary gland, thyroid and parathyroid gland.		120–123
AN 43.2	Describe and draw the microanatomical features of epiglottis.	4	26
AN 43.3	Describe and draw the microanatomical features of pineal gland.	18	124
AN 43.3	Describe and draw the microanatomical features of olfactory epithelium, tongue with its papillae, taste buds, cornea, sclera and internal ear.	19	128–137
AN 52.1	Describe and draw the microanatomical features of esophagus, fundus and pyloric part of stomach.	12	74–77
AN 52.1	Describe and draw the microanatomical features of duodenum, Jejunum, ileum and large intestine.	13	78–83
AN 52.1	Describe and draw the microanatomical features of liver, gall bladder and pancreas.	14	86–91
AN 52.1	Describe and draw the microanatomical features of suprarenal gland.	18	124
AN 52.2	Describe and draw the microanatomical features of kidney, ureter and urinary bladder.	15	92–95
AN 52.2	Describe and draw the microanatomical features of testis, epididymis, ductus deferens, prostate, seminal vesicle and penis.	16	98–105
AN 52.2	Describe and draw the microanatomical features of ovary, corpus luteum, uterus, uterine tube, cervix, vagina, mammary gland, placenta and umbilical cord.	17	106–119
AN 52.3	Describe and draw the microanatomical features of lip and cardioesophageal junction.	13	84
AN 65.1	Describe and draw the microanatomical features of various types of epithelium under the microscope with functional correlation.	2	4–17
AN 66.1	Describe and draw the microanatomical features of various types of connective tissue with functional correlation.	3	18–25
AN 67.1	Describe and draw the microanatomical features of various types of muscles under the microscope.	5	34–37
AN 68.1	Describe and draw the microanatomical features of multipolar and unipolar neuron, ganglia, peripheral nerves, cerebrum and cerebellum.	6	38–48

(Contd.)



## (Contd.)

Competency	Competency title	Chapter number	Page number
AN 69.1	Describe and draw the microanatomical features of elastic and muscular arteries, veins and capillaries under the microscope.	7	50–53
AN 70.1	Identify exocrine gland under the microscope and distinguish between serous, mucous and mixed acini.	9	60–63
AN 70.2	Identify the lymphoid tissue under the microscope and draw microanatomy of lymph node, spleen, thymus and tonsil.	8	54–59
AN 71.1	Identify bone under the microscope. Classify various types.	4	28–31
AN 71.2	Describe and draw the microanatomical features of cartilage and describe various types.	4	26–28
AN 72.1	Describe and draw the microanatomical features of the skin and its appendages under the microscope.	10	64–67