CONTENTS

COMPETENCY TABLE

Number	*The student should be able to*	*Core (Y/N)*	*Chapter No.*	*Page No.*
AN1.1	Demonstrate normal anatomical position, various planes, relation, comparison, laterality and movement in our body	Y	1	5
AN1.2	Describe composition of bone and bone marrow	Y	4	59, 61
AN2.1	Describe parts, blood and nerve supply of a long bone	Y	4	55, 60
AN2.2	Enumerate laws of ossification	N	4	69
AN2.3	Enumerate special features of a sesamoid bone	N	4	65
AN2.4	Describe various types of cartilage with its structure and distribution in body	Y	4	53
AN2.5	Describe various joints with subtypes and examples	Y	6	100
AN2.6	Explain the concept of nerve supply of joints and Hilton's law	Y	6	120
AN3.1	Classify muscle tissue according to structure and action	Y	5	77
AN3.2	Enumerate parts of skeletal muscle and differentiate between tendons and aponeuroses with examples	Y	5	78
AN3.3	Explain shunt and spurt muscles	N	5	93
AN4.1	Describe different types of skin and dermatomes in body	N	3	34, 38
			9	170
AN4.2	Describe structure and function of skin with its appendages	Y	3	34
AN4.3	Describe superficial fascia along with fat distribution in body	Y	3	43
AN4.4	Describe modifications of deep fascia with its functions	Y	3	43
AN4.5	Explain principles of skin incisions	N	3	34
			12	219
AN5.1	Differentiate between blood vascular and lymphatic system	Y	7	125
AN5.2	Differentiate between pulmonary and systemic circulation	Y	7	130
AN5.3	List general differences between arteries and veins	Y	7	128
AN5.4	Explain functional difference between elastic, muscular arteries and arterioles	Y	7	131
AN5.5	Describe portal system giving examples	Y	7	134
AN5.6	Describe the concept of anastomoses and collateral circulation with significance of end-arteries	Y	7	135, 137
AN5.7	Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses	N	7	136
AN5.8	Define thrombosis, infarction and aneurysm	N	7	139
AN6.1	List the components and functions of the lymphatic system	N	8	146
AN6.2	Describe structure of lymph capillaries and mechanism of lymph circulation	N	8	146
AN6.3	Explain the concept of lymphoedema and spread of tumors via lymphatics and venous system	N	8	153
AN7.1	Describe general plan of nervous system with components of central, peripheral and autonomic nervous systems	Y	9	157
AN7.2	List components of nervous tissue and their functions	Y	9	158
AN7.3	Describe parts of a neuron and classify them based on number of neurites, size and function	Y	9	158

Number	*The student should be able to*	*Core (Y/N)*	*Chapter No.*	*Page No.*
AN7.4	Describe structure of a typical spinal nerve	Y	9	169
AN7.5	Describe principles of sensory and motor innervation of muscles	N	5	87
			9	180
AN7.6	Describe concept of loss of innervation of a muscle with its applied anatomy	Y	5	87
			9	180
AN7.7	Describe various type of synapse	N	9	164
AN7.8	Describe differences between sympathetic and spinal ganglia	N	9	165
AN13.5	Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand	Y	11	206
AN13.6	Identify and demonstrate important bony landmarks of upper limb: Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula	Y	12	219
AN13.7	Identify and demonstrate surface projection of: Cephalic and basilic vein, Palpation of Brachial artery, Radial artery, Testing of muscles: Trapezius, pectoralis major, serratus anterior, latissimus dorsi, deltoid, biceps brachii, Brachioradialis	Y	12	219
AN20.6	Identify the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb	Y	11	206
AN20.7	Identify and demonstrate important bony landmarks of lower limb: Vertebral levels of highest point of iliac crest, posterior superior iliac spines, iliac tubercle, pubic tubercle, ischial tuberosity, adductor tubercle, Tibial tuberosity, head of fibula, Medial and lateral malleoli, Condyles of femur and tibia, sustentaculum tali, tuberosity of fifth metatarsal, tuberosity of the navicular	Y	12	219
AN20.8	Identify and demonstrate palpation of femoral, popliteal, post tibial, anti-tibial and dorsalis pedis blood vessels in a simulated environment	Y	12	219
AN20.9	Identify and demonstrate: Palpation of vessels (femoral, popliteal, dorsalis pedis, post-tibial), Mid-inguinal point, Surface projection of: femoral nerve, Saphenous opening, Sciatic, tibial, common peroneal and deep peroneal nerve, Great and small saphenous veins	Y	12	219
AN43.7	Identify the anatomical structures in 1) Plain X-ray of skull, 2) AP view and lateral view, 3) Plain X-ray cervical spine-AP and lateral view, 4) Plain X-ray of paranasal sinuses	Y	11	206
AN54.1	Describe and identify features of plain X-ray abdomen	Y	11	206
AN54.2	Describe and identify the special radiographs of abdominopelvic region (contrast X-ray, Barium swallow, Barium meal, Barium enema, Cholecystography, Intravenous pyelography and Hysterosalpingography)	Y	11	206
AN54.3	Describe role of ERCP, CT abdomen, MRI, Arteriography in radiodiagnosis of abdomen	N	11	206
AN55.1	Demonstrate the surface marking of; Regions and planes of abdomen, Superficial inguinal ring, Deep inguinal ring , McBurney's point, Renal angle and Murphy's point	Y	12	219

Number	*The student should be able to*	*Core (Y/N)*	*Chapter No.*	*Page No.*
AN55.2	Demonstrate the surface projections of: Stomach, Liver, Fundus of gallbladder, Spleen, Duodenum, Pancreas, Ileocaecal junction, Kidneys and Root of mesentery	Y	12	219
AN65.1	Identify epithelium under the microscope and describe the various types that correlate to its function	Y	2	20
AN66.1	Describe and identify various types of connective tissue with functional correlation	Y	2	26
AN72.1	Identify the skin and its appendages under the microscope and correlate the structure and function	Y	3	34
AN 82.1	Demonstrate respect and follow the correct procedure when handling cadavers and other biologic tissue	Y	13	228