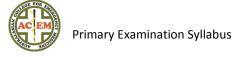


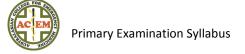
## **Primary Examination Syllabus**

The following syllabus is a guide to the study of the basic sciences for the primary examination. Candidates should note that the syllabus provided is intended only as a guide to major topics. Any area of basic medical science relevant to the clinical practice of emergency medicine can be examined.

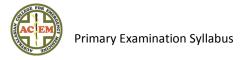
	TOPIC		Level
1.	ANATO	<u>OMY</u>	
1.	APPRO	OACHES TO STUDYING ANATOMY	
	1.1	Regional anatomy	3
	1.2	Systemic anatomy	3
	1.3	Clinical anatomy	3
2.	ANAT	OMICOMEDICAL TERMINOLOGY	
	2.1	Anatomical position	1
	2.2	Anatomical planes	1
	2.3	Terms of relationship and comparison	1
	2.4	Terms of laterality	1
	2.5	Terms of movement	1
3.	ANAT	OMICAL VARIATIONS	3
4.	INTEG	SUMENTARY SYSTEM	3
5.	FASCI	AL COMPARTMENTS, BURSAE AND POTENTIAL SPACES	1
6.	FASCI	AS	3
7.	SKELE	TAL SYSTEM	
	7.1	Cartilage and bones	1
	7.2	Bone markings and formations	1
	7.3	Joints	1
8.	MUSC	CLE TISSUE AND THE MUSCULAR SYSTEM	
	8.1	Types of muscle (muscle tissue)	2
	8.2	Skeletal muscles	2
	8.3	Cardiac striated muscle	2
	8.4	Smooth muscle	2
9.	CARD	IOVASCULAR SYSTEM	
	9.1	Vascular circuits	2
	9.2	Blood vessels	2
10.	LYMP	HOID SYSTEM	2
11.	NERV	OUS SYSTEM	
	11.1	Central nervous system	1



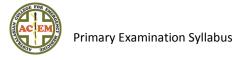
	11.2	Peripheral nervous system	1
	11.3	Somatic nervous system	1
	11.4	Autonomic nervous system	1
12.	MEDIC	CAL IMAGING TECHNIQUES	2
13.	OVERV	/IEW OF THORAX	3
14.	THORA	ACIC WALL	
	14.1	Skeleton of thoracic wall	1
	14.2	Thoracic apertures	3
	14.3	Joints of thoracic wall	3
	14.4	Movements of thoracic wall	3
	14.5	Muscles of thoracic wall	2
	14.6	Fascia of thoracic wall	3
	14.7	Nerves of thoracic wall	2
	14.8	Vasculature of thoracic wall	2
	14.9	Breasts	3
	14.10	Surface anatomy of thoracic wall	1
15.	VISCER	RA OF THORACIC CAVITY	
	15.1	Pleurae, lungs and tracheobronchial tree	1
	15.2	Overview of mediastinum	1
	15.3	Pericardium	2
	15.4	Heart	1
	15.5	Superior mediastinum and great vessels	1
	15.6	Posterior mediastinum	2
	15.7	Anterior mediastinum	3
	15.8	Surface anatomy of heart and mediastinal viscera	1
16.	ABDO	MEN OVERVIEW: WALLS, CAVITIES, REGIONS AND PLANES	2
17.	ANTER	COLATERAL ABDOMINAL WALL	
	17.1	Fascia of the anterolateral abdominal wall	3
	17.2	Muscles of anterolateral abdominal wall	2
	17.3	Neurovasculature of anterolateral abdominal wall	2
	17.4	Internal surface of anterolateral abdominal wall	3
	17.5	Inguinal region	1
	17.6	Spermatic cord, scrotum, and testis	1
	17.7	Surface anatomy of anterolateral abdominal wall	1
18.	PERITO	DNEUM AND PERITONEAL CAVITY	
	18.1	Subdivisions of peritoneal cavity	3
19.	ABDO	MINAL VISCERA	
	19.1	Overview of abdominal viscera and digestive tract	2
	19.2	Oesophagus	2
	19.3	Stomach	2
	19.4	Small intestine	2
	19.5	Large intestine	2



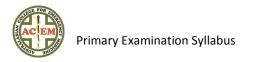
	19.6	Spleen	2
	19.7	Pancreas	2
	19.8	Liver	2
	19.9	Biliary ducts and gallbladder	2
	19.10	Kidneys, ureters, and suprarenal glands	2
	19.11	Summary of innervation of abdominal viscera	2
20.	DIAPH	IRAGM	
	20.1	Vessels and nerves of diaphragm	1
	20.2	Diaphragmatic apertures	3
	20.3	Actions of diaphragm	3
21.	POSTE	RIOR ABDOMINAL WALL	
	21.1	Fascia of posterior abdominal wall	3
	21.2	Muscles of posterior abdominal wall	3
	21.3	Nerves of posterior abdominal wall	2
	21.4	Vessels of posterior abdominal wall	2
22.	INTRO	DUCTION TO PELVIS AND PERINEUM	2
23.	PELVIC	CGIRDLE	
	23.1	Bones and features of pelvic girdle	1
	23.2	Orientation of pelvic girdle	2
	23.3	Joints and ligaments of pelvic girdle	2
24.	PELVIC	CCAVITY	
	24.1	Walls and floor of pelvic cavity	2
	24.2	Peritoneum and peritoneal cavity of pelvis	2
	24.3	Pelvic fascia	3
25.	NEURO	OVASCULAR STRUCTURES OF PELVIS	
	25.1	Pelvic arteries	2
	25.2	Pelvic veins	2
	25.3	Lymph nodes of pelvis	3
	25.4	Pelvic nerves	2
26.	PELVIC	CVISCERA	
	26.1	Urinary organs	2
	26.2	Rectum	2
	26.3	Male internal genital organs	3
	26.4	Female internal genital organs	2
	26.5	Lymphatic drainage of pelvic viscera	3
27.	PERINI	EUM	
	27.1	Fasciae and pouches of urogenital triangle	3
	27.2	Features of anal triangle	3
	27.3	Male urogenital triangle	3
	27.4	Female urogenital triangle	3



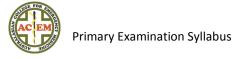
28.	OVER	VIEW OF BACK AND VERTEBRAL COLUMN	1
29.	VERTE	BRAE	
	29.1	Structure and function of vertebrae	1
	29.2	Regional characteristics of vertebrae	1
30.	VERTE	BRAL COLUMN	
	30.1	Joints of vertebral column	2
	30.2	Movements of vertebral column	2
	30.3	Curvatures of vertebral column	2
	30.4	Vasculature of vertebral column	2
	30.5	Nerves of vertebral column	1
31.	MUSC	LES OF BACK	
	31.1	Extrinsic back muscles	3
	31.2	Intrinsic back muscles	3
	31.3	Surface anatomy of back muscles	3
	31.4	Suboccipital and deep neck muscles	3
32.	CONTI	ENTS OF VERTEBRAL CANAL	
	32.1	Spinal cord	1
	32.2	Spinal nerve roots	1
	32.3	Spinal meninges and cerebrospinal fluid (CSF)	1
	32.4	Vasculature of spinal cord and spinal nerve roots	2
33.	OVER	/IEW OF LOWER LIMB	1
34.	DEVEL	OPMENT OF LOWER LIMB	1
35.	BONES OF LOWER LIMB		
	35.1	Arrangement of lower limb bones	1
	35.2	Hip bone	1
	35.3	Femur	1
	35.4	Tibia and fibula	1
	35.5	Bones of foot	1
	35.6	Surface anatomy of bones of foot	1
36.	FASCI	A, VEINS, LYMPHATICS, EFFERENT VESSELS AND CUTANEOUS NERVES OF LOWER LIMB	
	36.1	Subcutaneous tissue and fascia	1
	36.2	Venous drainage of lower limb	1
	36.3	Lymphatic drainage of lower limb	2
	36.4	Cutaneous innervation of lower limb	1
	36.5	Motor innervation of lower limb	1
37.	POSTU	JRE AND GAIT	
	37.1	Standing at ease	2
	37.2	Walking: the gait cycle	2
38.	ANTER	RIOR AND MEDIAL REGIONS OF THIGH	
	38.1	Organization of proximal lower limb	1
	38.2	Anterior thigh muscles	1



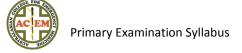
	38.3	Medial thigh muscles	1		
	38.4	Neurovascular structures and relationships in anteromedial thigh	1		
	38.5	Surface anatomy of anterior and medial regions of thigh	1		
39.	GLUTE	EAL AND POSTERIOR THIGH REGIONS			
	39.1	Gluteal region: buttocks and hip region	2		
	39.2	Muscles of gluteal region	2		
	39.3	Posterior thigh region	2		
	39.4	Neurovascular structures of gluteal and posterior thigh regions	2		
	39.5	Surface anatomy of gluteal and posterior thigh regions	1		
40.	POPLI	TEAL FOSSA AND LEG			
	40.1	Popliteal region	1		
	40.2	Anterior compartment of leg	1		
	40.3	Lateral compartment of leg	1		
	40.4	Posterior compartment of leg	1		
	40.5	Surface anatomy of leg	1		
41.	FOOT				
	41.1	Skin and fascia of foot	1		
	41.2	Muscles of foot	2		
	41.3	Neurovascular structures and relationships in foot	1		
	41.4	Surface anatomy of ankle region and foot	1		
42.	JOINTS OF LOWER LIMB				
	42.1	Hip joint	1		
	42.2	Knee joint	1		
	42.3	Tibiofibular joints	1		
	42.4	Ankle joint	1		
	42.5	Foot joints	1		
	42.6	Surface anatomy of joints of knee, ankle, and foot	1		
43.	OVER	VIEW OF UPPER LIMB	1		
44.	BONE	S OF UPPER LIMB			
	44.1	Clavicle	1		
	44.2	Scapula	1		
	44.3	Humerus	1		
	44.4	Bones of forearm	1		
	44.5	Bones of hand	1		
	44.6	Surface anatomy of upper limb bones	1		
45.	FASCIA	A, EFFERENT VESSELS, CUTANEOUS INNERVATION AND MYOTOMES OF UPPER LIMB			
	45.1	Fascia of upper limb	1		
	45.2	Venous drainage of upper limb	1		
	45.3	Lymphatic drainage of upper limb	2		
	45.4	Cutaneous innervation of upper limb	1		
	45.5	Motor innervation (myotomes) of upper limb	1		



46.	PECTO	RAL AND SCAPULAR REGIONS			
	46.1	Anterior axioappendicular muscles	1		
	46.2	Posterior axioappendicular and scapulohumeral muscles	1		
	46.3	Scapulohumeral (intrinsic shoulder) muscles	1		
	46.4	Surface anatomy of pectoral, scapular, and deltoid regions	1		
47.	AXILLA	A			
	47.1	Axillary artery	1		
	47.2	Axillary vein	1		
	47.3	Axillary lymph nodes	1		
	47.4	Brachial plexus	1		
48.	ARM				
	48.1	Muscles of arm	1		
	48.2	Brachial artery	1		
	48.3	Veins of arm	1		
	48.4	Nerves of arm	1		
	48.5	Cubital fossa	1		
	48.6	Surface anatomy of arm and cubital fossa	1		
49.	FOREA	ARM			
	49.1	Compartments of forearm	1		
	49.2	Muscles of forearm	1		
	49.3	Arteries of forearm	1		
	49.4	Veins of forearm	1		
	49.5	Nerves of forearm	1		
	49.6	Surface anatomy of forearm	1		
50.	HAND				
	50.1	Fascia and compartments of palm	1		
	50.3	Muscles of hand	1		
	50.3	Long flexor tendons and tendon sheaths in hand	1		
	50.4	Arteries of hand	1		
	50.5	Veins of hand	1		
	50.6	Nerves of hand	1		
	50.7	Surface anatomy of hand	1		
51.	JOINTS	S OF UPPER LIMB			
	51.1	Sternoclavicular joint	2		
	51.2	Acromioclavicular joint	2		
	51.3	Glenohumeral joint	1		
	51.4	Elbow joint	1		
	51.5	Proximal radio-ulnar joint	1		
	51.6	Distal radio-ulnar joint	1		
	51.7	Wrist joint	1		
	51.8	Intercarpal joints	2		
	51.9	Carpometacarpal and intermetacarpal joints	1		
	51.10	Metacarpophalangeal and interphalangeal joints	1		

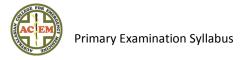


52.	OVER	VIEW – HEAD	2
53.	CRANI	IUM	
	53.1	Facial aspect of cranium	2
	53.2	Lateral aspect of cranium	2
	53.3	Occipital aspect of cranium	2
	53.4	Superior aspect of cranium	2
	53.5	External surface of cranial base	2
	53.6	Internal surface of cranial base	2
	53.7	Walls of cranial cavity	2
	53.8	Regions of head	2
54.	FACE A	AND SCALP	
	54.1	Face	1
	54.2	Scalp	1
	54.3	Muscles of face and scalp	2
	54.4	Nerves of face and scalp	1
	54.5	Superficial vasculature of face and scalp	2
	54.6	Surface anatomy of face	1
55.	CRANI	IAL MENINGES	
	55.1	Dura mater	3
	55.2	Arachnoid mater and pia mater	3
	55.3	Meningeal spaces	2
56.	BRAIN	ı	
	56.1	Parts of brain	1
	56.2	Ventricular system of brain	1
	56.3	Arterial blood supply of brain	1
	56.4	Venous drainage of brain	2
57.	EYE, O	PRBIT, ORBITAL REGION AND EYEBALL	
	57.1	Orbits	1
	57.2	Eyelids and lacrimal apparatus	2
	57.3	Eyeball	2
	57.4	Extraocular muscles of orbit	1
	57.5	Nerves of orbit	1
	57.6	Vasculature of orbit	2
	57.7	Surface anatomy of eye and lacrimal apparatus	1
58.	PARAT JOINT	TOID AND TEMPORAL REGIONS, INFRATEMPORAL FOSSA AND TEMPOROMANDIBULAR	
	58.1	Parotid region	2
	58.2	Temporal region	3
	58.3	Infratemporal fossa	3
59.	ORAL	REGION	
	59.1	Oral cavity	2
	59.2	Lips, cheeks, and gingivae	2
	59.3	Teeth	2

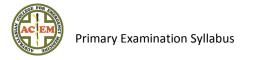


	59.4	Palate	3			
	59.5	Tongue	2			
	59.6	Salivary glands	2			
60.	PTERY	GOPALATINE FOSSA				
	60.1	Pterygopalatine part of maxillary artery	3			
	60.2	Maxillary nerve	2			
61.	NOSE					
	61.1	External nose	2			
	61.2	Nasal cavities	2			
	61.3	Vasculature and innervation of nose	2			
	61.4	Paranasal sinuses	3			
62.	EAR					
	62.1	External ear	2			
	62.2	Middle ear	2			
	62.3	Internal ear	3			
63.	OVER	VIEW – NECK	3			
64.	BONES OF NECK					
	64.1	Cervical vertebrae	1			
	64.2	Hyoid bone	3			
65.	FASCI	A OF NECK				
	65.1	Cervical subcutaneous tissue and platysma	3			
	65.2	Deep cervical fascia	2			
66.	SUPER	RFICIAL STRUCTURES OF NECK: CERVICAL REGIONS				
	66.1	Sternocleidomastoid region	1			
	66.2	Posterior cervical region	1			
	66.3	Lateral cervical region	1			
	66.4	Anterior cervical region	1			
	66.5	Surface anatomy of cervical regions and triangles of neck	1			
67.	DEEP S	DEEP STRUCTURES OF NECK				
	67.1	Prevertebral muscles	2			
	67.2	Root of neck	2			
68.		RA OF NECK				
	68.1	Endocrine layer of cervical viscera	2			
	68.2	Respiratory layer of cervical viscera	1			
	68.3	Alimentary layer of cervical viscera	2			
	68.4	Surface anatomy of endocrine and respiratory layers of cervical viscera	2			

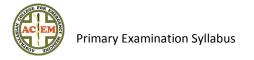
69.	LYMPHATICS OF NECK	2
70.	SUMMARY OF CRANIAL NERVES	
71.	OVERVIEW SUMMARY OF CRANIAL NERVES	1
72.	OLFACTORY NERVE (CN I)	3
73.	OPTIC NERVE (CN II)	1
74.	OCULOMOTOR NERVE (CN III)	1
75.	TROCHLEAR NERVE (CN IV)	1
76.	TRIGEMINAL NERVE (CN V) 76.1 Ophthalmic nerve (CN V1) 76.2 Maxillary nerve (CN V2) 76.3 Mandibular nerve (CN V3)	1 1 1 1
77.	ABDUCENT NERVE (CN VI)	1
78.	FACIAL NERVE (CN VII)	1
79.	VESTIBULOCOCHLEAR NERVE (CN VIII)	3
80.	GLOSSOPHARYNGEAL NERVE (CN IX)	3
81.	VAGUS NERVE (CN X)	2
82.	SPINAL ACCESSORY NERVE (CN XI)	2
83.	HYPOGLOSSAL NERVE (CN XII)	3
2.	PATHOLOGY	
* =	additional material in Ganong (see recommended texts)	
1.	CELLULAR INJURY AND ADAPTATION  1.1 Cellular adaptation  1.2 Mechanism of cell injury	<b>2</b> 1 1
2.	ACUTE AND CHRONIC INFLAMMATION	1
3.	TISSUE RENEWAL AND REPAIR  3.1 Control of normal tissues  3.2 Repair by healing, scar formation, and fibrosis  3.3 Cutaneous wound healing  3.4 Fibrosis	2 2 2 1 2
4.	FLUID AND HAEMODYNAMIC DERANGEMENTS  4.1 *Oedema  4.2 Hyperaemia and congestion  4.3 Haemorrhage	<b>1</b> 1 1



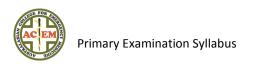
	4.4	*Thrombosis	1
	4.5	*Haemostasis	1
	4.6	Embolism	1
	4.7	Infarction	1
	4.8	* Shock	1
5.	DISEA	SES OF IMMUNITY	2
	5.1	*General features of the immune system	2
	5.2	*Hypersensitivity reactions	1
	5.3	Immunologic tolerance and causative mechanisms of auto immune disease	3
	5.4	Acquired immunodeficiency syndrome (AIDS)	3
6.	NEOPI	ASIA	3
	6.1	Biology of tumour growth	2
	6.2	Epidemiology	3
	6.3	Molecular basis of cancer	3
	6.4	Carcinogenic agents	3
	6.5	Tumour immunity	3
	6.6	Clinical features of tumours	2
7.	INFEC	TIOUS DISEASE	2
	7.1	General principles of microbial activity including transmission	1
	7.2	Viral infections	2
	7.3.	Bacterial infections including chlamydia, rickettsia, mycoplasma	1
	7.4	General features of other infectious diseases - fungi, protozoa, helminths except malaria	3
	7.5	Malaria	2
	7.6	Principles of sterilisation and disinfection	2
8.	ENVIR	ONMENTAL PATHOLOGY	3
	8.1	Personal exposure	3
	8.2	Therapeutic drugs	1
	8.3	Air pollution	3
	8.4	Industrial exposure	3
	8.5	Radiation	3
	8.6	Physical injuries	1
	8.7	Nutritional pathology	3
9.	BLOOI	O VESSELS	2
	9.1	Vascular response to injury	3
	9.2	Atherosclerosis	1
	9.3	Hypertensive vascular disease	2
	9.4	Aneurisms and dissections	1
	9.5	Vasculitides	3
	9.6	Veins and lymphatics	3
10.	THE H	EART	1
	10.1	*Congestive heart failure	1
	10.2	*Ischaemic heart disease	1
	10.3	Valvular heart disease	2
	10.4	Cardiomyopathies	2



	10.5	Pericardial disease	2
	10.6	Transplantation	3
	10.7	Congenital heart disease	3
11.	BLOOI	D CELL DISORDERS	3
	11.1	Normal development	3
	11.2	*Anaemias	2
	11.3	Polycythaemia	3
	11.4	Bleeding disorders	2
	11.5	*Blood groups; transfusions	2
	11.6	Leukopenia	2
	11.7	Inflammatory white cell proliferation	2
	11.8	Neoplastic white cell proliferation	3
	11.9	Splenomegaly	3
12.	THE LU	JNG	2
	12.1	*Atelectasia	3
	12.2	*Pulmonary congestion and oedema	1
	12.3	*Obstructive airways disease	1
	12.4	Diffuse interstitial disease	3
	12.5	Disease of vascular origin	3
	12.6	Pulmonary infections	1
	12.7	Tumours	2
	12.8	Pleural pathology	3
	12.9	*Hyperbaric oxygen	3
13.	THE G	ASTROINTESTINAL TRACT	2
	13.1	Intestinal inflammatory disorders	2
	13.2	Malabsorption syndromes	3
	13.3	Ischaemic bowel disease	1
14.	LIVER	AND BILIARY TRACT	2
	14.1	General features of hepatic disease	1
	14.2	Infectious disorders	1
	14.3	Alcoholic liver disease	1
	14.4	Cholelithiasis	1
	14.5	Cholecystitis	1
15.	PANCI	REAS	2
	15.1	Acute pancreatitis	1
	15.2	Chronic pancreatitis	2
16.	RENAI	SYSTEM	2
	16.1	*Glomerular disease	3
	16.2	Tubular and interstitial disease	2
	16.3	*Hypertensive renal disease	3
	16.4	Urinary tract obstruction	1
	16.5	Urolithiasis	1
	166	*Abnormalities in acid base balance	2

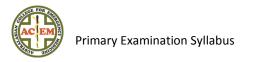


17.	GENIT	OURINARY	3
	17.1	Testes	3
	17.2	Prostate	3
	17.3	The female genital tract	3
	17.4	Gestational disorders – miscarriage, ectopic pregnancy	1
	17.5	Gestational disorders – other	2
18.	ENDO	CRINE	3
	18.1	Pituitary	2
	18.2	Thyroid	3
	18.3	Parathyroid	3
	18.4	Endocrine pancreas	2
	18.5	Adrenal cortex and medulla	2
19.	MUSC	CULOSKELETAL SYSTEM	
	19.1	Bone remodelling, growth and development	3
	19.2	Osteoporosis	3
	19.3	Paget's disease	3
	19.4	Fractures	1
	19.5	Osteonecrosis	3
	19.6	Osteomyelitis	1
	19.7	Arthritis	2
20.	NERVO	OUS SYSTEM	2
	20.1	Peripheral neuropathies	3
	20.2	Cerebral oedema and raisedintracranial pressure	1
	20.3	Trauma	1
	20.4	Cerebrovascular disease	1
	20.5	Infections	1
	20.6	Demyelinating diseases	3
	20.7	Degenerative diseases	3
	20.8	Toxic and acquired metabolic diseases	3
21.	THE E	YE	3
22.	GENET	TIC DISORDERS	3
23.	HEAD	AND NECK	
	23.1	Teeth and supporting structures	3
24.	DISEA	SES OF CHILDHOOD	
	24.1	Cystic fibrosis	3
	24.2	Sudden infant death syndrome	2
25.	THE SI	KIN	3



## 3. PHYSIOLOGY

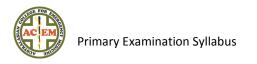
PRINCI	PLES OF CELLULAR FUNCTION	
	The General and Cellular Basis of Medical Physiology	
	General principles	1
	Cellular physiology	1
PHYSIO	DLOGY OF NERVE AND MUSCLE CELLS	
	Nerve	
	General morphology and anatomy	3
	Nerve function including excitation and conduction, fibre types, neurotransmitt synapses and neuromuscular transmission	ers, 1
	Muscle	
	General morphology and anatomy	2
	Skeletal Muscle	
	Function, electrical and mechanical and properties  Metabolism	1 1
	Cardiac Muscle	
	Function, electrical (including pacemaker tissue) and mechanical, and propertie	s 1
	Metabolism	1
	Smooth Muscle	2
NERVO	US SYSTEM	
	Neurotransmitters	1
	Reflexes	2
	Cutaneous, Deep, and Visceral Sensation	1
	Vision	
	Anatomy, pathways and image forming mechanisms	2
	Eye movements	2
	Hearing and Equilibrium	
	Anatomy, mechanisms of hearing and vestibular functions	2
	Hair cells	3
	Alert Behaviour, Sleep/Wake, and the Electrical Activity of the Brain	3
	Control of Posture and Movement	1
	General principles, corticospinal and corticobulbar system, cerebellum	1
	Midbrain and basal ganglia	3
	The Autonomic Nervous System	Pharmacology
	Central Regulation of Visceral Function	
	Hypothalamic function including vasopressin, temperature regulation	1
	Anatomic, cyclic and autonomic considerations	3
	Thirst Control of anterior pituitary secretion	2
	Oxytocin	3
		_



Language	3
ENDOCRINOLOGY	
Thyroid Gland	
Thyroid hormones	2
Endocrine Functions of the Pancreas	
Islet cell structure	3
Insulin	1
Regulation of insulin secretion	1
Glucagon	1
Other islet cell hormones	3
The Adrenal Medulla and Adrenal Cortex	
Adrenal morphology	2
Adrenal medulla and medullary hormones	1
Adrenal cortex and cortical hormone synthesis/metabolism	3
Glucocorticoids	1
Regulation of glucocorticoid secretion	2
Mineralocorticoids	1
Calcium and Renal	
Calcium and phosphorus metabolism	1
Bone physiology	2
Vitamin D and the hydroxycholecalciferols	3
The parathyroid glands	2
Calcitonin	3
The renin-angiotensin system	1
Other renal hormones	2
Pituitary Gland	
Introduction	1
Morphology	2
Intermediate-lobe hormones	3
Growth hormone	2
Physiology of growth	3
Pituitary insufficiency	1
Pituitary hyperfunction	2
Reproductive Physiology	
Sex differentiation and development	3
Pituitary gonadotropins and prolactin	3
The male reproductive system	2
The female reproductive system	2
Pregnancy	1
Lactation	2
GASTROINTESTINAL SYSTEM AND METABOLISM	
Gastrointestinal Physiology	
General considerations	1
Mouth and oesophagus	2

Stomach	1
Exocrine portion of the pancreas	2
Liver and biliary system	1
Small intestine	2
Colon	2
Gastrointestinal hormones	2
Digestion and Absorption	
Carbohydrates	3
Proteins and nucleic acids	3
Lipids	2
Absorption of water and electrolytes	1
Absorption of vitamins and minerals	2
Metabolism and Nutrition	
Nutrition and energy metabolism	2
Carbohydrate, protein, fat and intermediary metabolism	2
CIRCULATING BODY FLUIDS	
Bone marrow	1
Blood cell types	1
Haemoglobin	1
Platelets	1
Blood types	1
Plasma	1
Haemostasis	1
Lymph	3
THE HEART	
Electrical Activity of the Heart	
Cardiac excitation	1
The electrocardiogram	1
Cardiac arrhythmias	1
Electrocardiographic findings in other diseases	1
Pump Function	
Mechanical events of the cardiac cycle	1
Cardiac output	1
Cardiac function in health and disease	1
THE CIRCULATION	
Blood and Lymph Flow	
Biophysics	1
Blood circulation- vessels	1
Lymphatic circulation	1
Interstitial fluid	1
Cardiovascular Regulatory Mechanisms	
Local regulation	1
Hormonal regulation	1
Regulation by the nervous system	1

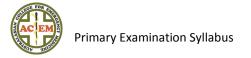
Circulation through Special Regions	
Cerebral circulation	1
Coronary circulation	1
Pulmonary circulation	1
Renal circulation	1
Splanchnic circulation	2
Cutaneous circulation	2
Placental and foetal circulation	2
*RESPIRATORY PHYSIOLOGY	
Respiratory Physiology – The Essentials	
Anatomy, Structure and Functional interface	1
Ventilation	1
Anatomy	1
Regulation and control	1
Mechanics of breathing	
Pulmonary Blood Flow	1
Water and fluid balance in the lung	1
Pulmonary metabolic function	1
Ventilation – Perfusion Relationships	1
Gas Diffusion	1
Gas Transport by the Blood and to tissues	1
Respiratory aspects of acid base balance	1
Respiratory System under Stress	2
Tests of Pulmonary Function	3
Forced expiration	2
RENAL PHYSIOLOGY	
Renal Function and Micturition	
Anatomy	1
Renal circulation	1
Glomerular filtration	1
Tubular function and regulation	1
Renal function disorder and diuretics	1
The bladder	2
Regulation of Extracellular Fluid Composition, Volume and Acid-Base balance	
Tonicity	1
Volume	1
Specific ionic composition	1
The Renin-Angiotensin System	1
Natriuretic factors	2
H+ and bicarbonate regulation	1
Acidosis and alkalosis	1



## 4. PHARMACOLOGY

1.	GENERAL PHARMACOLOGY					
	1.1	Pharma	acokinetics			
		1.1.1	Absorption	1		
		1.1.2	Distribution	1		
		1.1.3	Biotransformation	1		
		1.1.4	Elimination kinetics	1		
	1.2	Pharma	Pharmacodynamics			
		1.2.1	Mechanisms of action	1		
		1.2.2	Receptors and their regulation	1		
		1.2.3	Second messengers / G protein	1		
		1.2.4	Dose response	1		
		1.2.5	Dosing issues	1		
	1.3	Principl	es of prescribing			
		1.3.1	Drugs and the elderly	2		
		1.3.2	Drugs and children	2		
		1.3.3	Drugs and pregnancy	2		
2	RESDI	RATORY S	VSTEM			
3.	2.1		xanthines	2		
	2.2	•	chomimetic	1		
	2.3		ım cromoglycolate and others	3		
	2.4		inic antagonists	1		
	2.5	Antitus	_	3		
	2.6		s in respiratory disease	1		
9	CAPD	IOVASCIII	AD SYSTEM			
э.	CARDIOVASCULAR SYSTEM  3.1 Emergency drugs (cardiac)					
	5.1	3.1.1		1		
			Drugs used in cardiac arrest	1		
	2.2	3.1.2	Inotropes	1		
	3.2	3.2.1	ginal drugs Nitrates	1		
			Calcium channel blockers	1		
		3.2.2	Beta blockers	1		
	3.3	3.2.3		1		
	3.3	3.3.1	hythmic agents  Sodium channel blockers			
		5.5.1	3.3.1.1 Class 1a	2		
				2		
			3.3.1.2 Class 1b	1		
		222	3.3.1.3 Class 1c	2		
		3.3.2	Beta blockers – class 2	1		
		3.3.3	Potassium channel blockers – class 3	1		
		3.3.4	Calcium channel blockers – class 4	1		
		3.3.5	Adenosine	1		
	_	3.3.6	Magnesium	1		
	3.4	Cardiac glycosides 1				
	3.5		pertensives			
		3.5.1	Beta blockers	1		

		3.5.2	ACE inhibitors	2		
		3.5.3	Vasodilators	2		
		3.5.4	Sympatholytics	2		
	3.6	Diuretio	cs			
		3.6.1	Loop diuretics	1		
		3.6.2	Thiazide diuretics	2		
		3.6.3	Potassium sparing diuretics	2		
		3.6.4	Osmotic	2		
	3.7	Drugs a	ffecting haemostasis, thrombosis and the haemopoietic system			
		3.7.1	Anti-platelet agents	1		
		3.7.2	Anticoagulants	1		
		3.7.3	Thrombolytics	1		
		3.7.4	Haemopoietic agents	3		
	3.8	Drugs u	ised in control of lipids	3		
4.	NERV	OUS SYSTE	EM			
	4.1		ransmitters	2		
	4.2		acting on autonomic nervous system			
		4.2.1	Sympathetic	1		
		4.2.2	Parasympathetic	1		
	4.3	Local ar	naesthetics	1		
	4.4		l anaesthesia			
		4.4.1	Induction agents	1		
		4.4.2	Muscle relaxants	1		
		4.4.3	Volatile anaesthetics	3		
		4.4.4	Nitrous oxide	1		
	4.5	Antipsy	rchotic agents	2		
	4.6		pressives			
		4.6.1	Tricyclics	1		
		4.6.2	Serotonin re-uptake inhibitors	2		
		4.6.3	Newer agents	2		
		4.6.4	Lithium	1		
	4.7	Anticon	nvulsants			
		4.7.1	Phenytoin	1		
		4.7.2	Carbamazepine	1		
		4.7.3	Sodium valproate	1		
		4.7.4	Newer agents	3		
	4.8	Hypnot	ics / sedatives			
		4.8.1	Benzodiazepines	1		
		4.8.2	Barbiturates	1		
		4.8.3	Newer agents	3		
	4.9	Ethano	I	1		
	4.10	Anti-pa	rkinsonian agents	3		
	4.11	Anti-mi	graine agents	2		
5.	ANTIN	ANTIMICROBIAL AGENTS				
	5.1		es of action	1		
	5.2	-	ctam agents	1		



	5.3	Aminog	lyocides		1	
	5.4	Sulphor	namides		2	
	5.5	Quinolo	ones		2	
	5.6	Antimy	cobacterial agents		3	
	5.7	Metron	idazole		2	
	5.8	Antifun	gal		3	
	5.9	Antivira	l, including HIV prophylaxis		2	
	5.10	Disinfec	ctants		2	
	5.11	Mechan	nism of resistance		2	
	5.12	Anti-pro	otazoal, anti-parasitic, anti-helminithic		3	
	5.13		de agents		2	
	5.14	Tetracy	clines		2	
	5.15	Vancom			2	
	5.16	Lincosai	mides		2	
	5.17	Other			3	
6.	IMMU	JNE SYSTEI	М			
	6.1	Histami	ne antagonists		2	
	6.2	Eicosan	oids		3	
	6.3	Vaccine	S		3	
	6.4	Immund	oglobulins		3	
7.	ENDO	CRINE SYS	TEM			
	7.1	Drugs u	sed in treatment of diabetics		1	
	7.2	Steroids	S		1	
	7.3	Sex hor	mones		3	
	7.4	Drugs u	sed in treatment of thyroid disease		3	
	7.5	Hypotha	alamic/pituitary hormone agents		3	
	7.6	Drugs a	ffecting bone metabolism		3	
	7.7	Octreot	ide		2	
8.	GASTI	RO-INTEST	INAL TRACT			
	8.1	Antiemetics				
	8.2	Antidiar	rrhoeal		3	
	8.3	Laxative	es		3	
	8.4	Anti-ulc	er medication		2	
	8.5	Antispa	smodics		2	
	8.6	Topical	rectal agents		3	
9.	ANAL	ANALGESICS AND ANTI-INFLAMMATORY AGENTS				
	9.1	Anti-inflammatory drugs				
		9.1.1	Aspirin		1	
		9.1.2	Non-steroidal anti-inflammatory drugs		2	
	9.2	Paracetamol			1	
	9.3	Anti-gout agents			3	
	9.4	Steroids	S		1	
	9.5	Opiates			1	

10.	TOXIC	TOXICOLOGY				
	10.1	Activated charcoal				
	10.2	Antidote				
		10.2.1	N-Acetyl cysteine	2		
		10.2.2	Naloxone	2		
		10.2.3	Flumazenil	2		
		10.2.4	Sodium bicarbonate	2		
		10.2.5	Antivenoms	2		
		10.2.6	Chelating agents	3		
		10.2.7	Digoxin antibody fragments	2		
		10.2.8	Oximes	3		
	10.3	Toxidromes		1		
	10.4	Drugs of	f abuse	2		
11.	FLUIDS AND ELECTROLYTES					
	11.1	Intravenous fluid solutions				
	11.2	Potassiu	um	1		
	11.3	Calcium		1		
	11.4	Sodium		1		
	11.5	Magnes	ium	1		
12.	MISCELLANEOUS					
	12.1	Vitamins	S			
		12.1.1	Vitamin K	2		
		12.1.2	Vitamin B1	2		
		12.1.3	Vitamin B6	3		
	12.2	Ophthalmic preparations		2		
	12.3	Genito-urinary agents		3		