Table of Specifications (ToS) FOR ALL M.D. PROGRAMMES (5-Years Only) EXCEPT Developmental Paediatrics

Part-II

"Paper-I"
(Fundamental Concepts in Internal Medicine)

Sr.#	Topics /Sub-Topics	No. of MCQs	No. of SEQs
1.	Pulmonary Medicine	140. Of IVICQ3	140. 01 32 23
1.	Common and / or Important Respiratory Problems:		
>	COPD		
>	Asthma	01	
>	Pneumonia	01	
	Pleural disease: Pneumothorax, pleural effusion,	-	
>	mesothelioma	01	
>	Lung Cancer	01	
>	Respiratory failure and methods of respiratory support	01	
>	Pulmonary embolism and DVT	01	02
>	Tuberculosis	01	02
>	Interstitial lung disease	01	
>	Bronchiectasis	UT	
>	Respiratory failure and cor-pulmonale	01	
>	Pulmonary hypertension	01	
	Clinical Science:		
>	Principles of lung function measurement		
	Pharmacology of major drug classes: bronchodilators,	01	
>	inhaled corticosteroids, leukotriene receptor antagonists,	01	
	immunosuppressants		
2.	Cardiovascular Illness		
	Common and / or important Cardiac Problems:		
>	Arrhythmias	01	
>	Ischaemic Heart Disease: acute coronary syndromes, stable	0.4	
	angina, atherosclerosis	01	
>	Heart Failure		
>	Hypertension – including investigation and management of	01	
	accelerated hypertension Valvular Heart Disease	01	
>	Endocarditis		
>	Aortic dissection	01	
>	Syncope	01	01
>	Dyslipidaemia	01	
	Clinical Science:	01	
	Physiological principles of cardiac cycle and cardiac		
>	conduction	01	
A	Pharmacology of major drug classes: beta blockers, alpha blockers, ACE inhibitors, Angiotensin receptor blockers (ARBs), anti-platelet agents, thrombolysis, inotropes, calcium channel antagonists, potassium channel activators, diuretics, anti-arrhythmics, anticoagulants, lipid modifying drugs, nitrates, centrally acting anti-hypertensives	01	

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3.	Endocrinology and Metabolism		
	Common and / or Important Diabetes Problems:		
>	Diabetic ketoacidosis	01	
>	Non-acidotic hyperosmolar coma / severe hyperglycaemia	O I	
>	Hypoglycaemia	01	
>	Care of the acutely ill diabetic	01	
>	Peri-operative diabetes care	01	
	Common or Important Endocrine Problems:		
>	Hyper/Hypocalcaemia	01	
>	Adrenocortical insufficiency	01	
>	Hyper/Hyponatraemia	01	01
>	Thyroid dysfunction	01	01
>	Dyslipidaemia	01	
>	Endocrine emergencies: myxoedemic coma, thyrotoxic crisis, Addisonian crisis, hypopituitary coma, phaeochromocytoma crisis	01	
	Clinical Science:		
>	Outline the function, receptors, action, secondary	01	
	messengers and feedback of hormones	-	
>	Pharmacology of major drug classes: insulin, oral anti- diabetics, thyroxine, anti-thyroid drugs, corticosteroids, sex	01	
_	hormones, drugs affecting bone metabolism		
4.	Clinical Pharmacology		
	Common and / or Important problems:	-	
	Corticosteroid treatment: short and long-term	01	
>	complications, bone protection, safe withdrawal of	01	
	corticosteroids, patient counselling regarding avoid adrenal		
>	Crises Specific treatment of paicaning with:		
	Specific treatment of poisoning with:		
	Aspirin,		
•	Paracetamol Triovalia anti dannacento		
-	Tricyclic anti-depressants	01	
•	Beta-blockers	01	01
•	Carbon monoxide		U I
•	Opiates		
~	✓ Digoxin		
~	✓ Benzodiazepines		
	Clinical Science:		
>	Drug actions at receptor and intracellular level		
>	Principles of absorption, distribution, metabolism and		
A	excretion of chemotherapeutic and palliative drugs	01	
\(\lambda\)	Effects of genetics on drug metabolism		
	Pharmacological principles of drug interaction		
>	Outline the effects on drug metabolism of: pregnancy, age, renal and liver impairment		

5.	Allergy and Immunology		
	Common or Important Allergy Problems		
>	Anaphylaxis		
>	Recognition of common allergies; introducing occupation associated allergies	01	
>	Food, drug, latex, insect venom allergies		
>	Urticaria and angioedema		
	Clinical Science		
>	Mechanisms of allergic sensitization: primary and secondary prophylaxis		01
>	Natural history of allergic diseases	01	
>	Mechanisms of action of anti-allergic drugs and immunotherapy		
>	Principles and limitations of allergen avoidance		
	Common or Important Immunology related Problems:	01	
>	Anaphylaxis (see also 'Allergy')	ΟI	
	Clinical Science:		
>	Innate and adaptive immune responses	01	
>	Principles of Hypersensitivity and transplantation		
6.	Infectious Diseases		
	Common and / or Important Problems:		
>	Fever of Unknown origin		
>	Complications of sepsis: shock, DIC, ARDS		
>	Common community acquired infection: LRTI, UTI, skin and		
	soft tissue infections, viral exanthema, gastroenteritis		
>	CNS infection: meningitis, encephalitis, brain abscess		
>	HIV and AIDS including ethical considerations of testing	04	
>	Infections in immuno-compromised host		
>	Tuberculosis		
>	Anti-microbial drug monitoring		01
>	Endocarditis		
>	Common genito-urinary conditions: non-gonococcal urethritis, gonorrhoea, syphilis		
	Clinical Science:		
>	Principles of vaccination		
>	Pharmacology of major drug classes: penicillins, cephalosporins, tetracyclines, aminoglycosides, macrolides, sulphonamides, quinolones, metronidazole, antituberculous drugs, anti-fungals, anti-malarials, antihelminthics, anti-virals	01	

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7.	Clinical Genetics		
	Common and / or Important problems:		
>	Down's syndrome		
>	Turner's syndrome		
>	Huntington's disease		
>	Haemochromatosis	01	
>	Marfan's syndrome		
>	Klinefelter's syndrome		
>	Familial cancer syndromes		
>	Familial cardiovascular disorders		01
	Clinical Science:		UI
_	Structure and function of human cells, chromosomes, DNA,	1	
>	RNA and cellular proteins		
	Principles of inheritance: Mendelian, sex-linked,		
>	mitochondrial	01	
>	Principles of pharmacogenetics	ΟI	
	Principles of mutation, polymorphism, trinucleotide repeat		
>	disorders		
>	Principles of genetic testing including metabolite assays,		
	clinical examination and analysis of nucleic acid (e.g. PCR)		
8.	Cancer and Palliative Care		
	Common or Important Gastroenterology Problems:		
>	Hypercalcaemia		
>	SVC obstruction		
>	Spinal cord compression	01	
>	Neutropenic sepsis	0.1	
	Common cancers (presentation, diagnosis, staging,		
>	treatment principles): lung, bowel, breast, prostate,		
	stomach, oesophagus, bladder)		
	Common or Important Palliative Care Problems:		
>	Pain: appropriate use, analgesic ladder, side effects, role of		
	radiotherapy		01
>	Constipation		
>	Breathlessness		
>	Nausea and vomiting		
>	Anxiety and depressed mood	20	
>	Clinical Science:	02	
>	Principles of oncogenesis and metastatic spread		
>	Apoptosis		
>	Principles of staging		
>	Principles of screening		
,	Pharmacology of major drug classes in palliative care: anti-		
>	emetics, opioids, NSAIDS, agents for neuropathic pain,		
	bisphosphonates, laxatives, anxiolytics		

9.	Geriatrics and Rehabilitation		
	Common or Important Problems:		
>	Deterioration in mobility		
>	Acute confusion		
>	Stroke and transient ischaemic attack		
>	Falls		
>	Age related pharmacology		
>	Hypothermia	02	
>	Continence problems	02	01
>	Dementia		O I
>	Movement disorders including Parkinson's disease		
>	Depression in the elderly		
>	Osteoporosis		
>	Malnutrition		
>	Osteoarthritis		
	Clinical Science:		
>	Effects of ageing on the major organ systems	01	
>	Normal laboratory values in older people		
	Total	50 MCQs	10 SEQs