

Third Year MBBS Course Contents

For Khyber Medical University (Kmu) Students

Block G

Modules: Foundation II & Infection And Inflammation

Pharmacology (Mcqs=39)

Topics Listed in Kmu Syllabus with book page numbers:

FOUNDATION II MODULE: (MCQS=19)

S.No.	Topics	Katzung Review	Lippincot	Tara
1	Introduction to the subject		Not Present	Ch#1; P#1
2	Nomenclature of drugs	Not present	Not Present	Ch#1; P#2
3	Sources of drugs	Not present	Not Present	Ch#1; P#2,3
4	Active principles of crude drugs	Not present	Not Present	Not present
5	Routes of drug administration	Very short	Ch#1; Page# 1	Ch#1; P#3-9
6	Absorption of drugs		Ch#1; Page#4	Ch#1; P#9-11
7	Bioavailability and Bioequivalence		Ch#1; Page#8	Ch#1; P#12
8	Hepatic first pass effect (Presystemic elimination)		Ch#1; Page#9	Ch#1; P#12
9	Enterohepatic circulation			Ch#1; P#13
10	Distribution of drugs		Ch#1; Page#9	Ch#1; P#13-15
11	Volume of distribution		Ch#1; Page#10	Ch#1; P#13-15
12	Loading dose		Ch#1; P#16-19	Ch#1; P#23
13	Physiological barriers to transport of drugs		Not Present	Ch#1; P#14
14	Biotransformation(metabolism of drug)	35-38	Ch#1; Page#12-15	Ch#1; P#15
15	Genetic influence on biotransformation of drugs	35-38	Not Present	Ch#1; P#18-19
16	Enzyme induction	35-38	Ch#1; Page#14	Ch#1; P#19
17	Enzyme inhibition	35-38	Ch#1; Page#14	Ch#1; P#20
18	Excretion of drugs and drug clearance		Ch#1; Page#15-16	Ch#1; P#20-23
19	Maintenance dose		Ch#1; Page#16-19	Ch#1; P#20-23
20	Plasma half life		Ch#1; Page#16-19	Ch#1; P#20-23
21	Steady-state concentration of drugs		Ch#1; Page#16-19	Ch#1; P#20-23
22	First- and zero order kinetics		Ch#1; Page#12	Ch#1; P#20-23
23	Bioassay and standardization		Not Present	

24	Pharmacodynamics		Ch#2; Page#23	Ch#1; P#26
25	Dose-response curves (Graded and Quantal)	18	Ch#2; Page#27	Ch#1; P#31
26	Therapeutic index	20,	Ch#2; Page#33	Ch#1; P#32
27	Protective index		Not Present	Ch#1; P#32
28	Therapeutic window	20,30	Not Present	Ch#1; P#32
29	Potency and efficacy	18	Ch#2; P#27-28	Ch#1; P#32
30	Drug antagonism	18	Ch#2; P#31-32	Ch#1; P#34
31	Drug interactions	Not present	Not Present	Ch#1; P#39
32	Tolerance and Tachyphylaxis	21	Not Present (only definition of tachyphylaxis on P#27)	Ch#1; P#35-39
33	Adverse drug reactions	Not present	Not Present	Ch#1; P#42
34	New drug development	07	Not Present	Ch#1; P#48-51

NOTE: topics not present in Lippincot or Katzung should be covered from Tara or Ubaid General Pharma.

INFECTION AND INFLAMMATION MODULE (MCQS=20):

S.No.	Topics	Katzung Review	Lippincot	Tara
1	Overview of Anti-inflammatory drugs	Ch#36 Page#304	Ch#38...Anti-inflammatory, anti-pyretic and analgesic agents Upto the topic of acetaminophen (page#518) only	P#260-269 (Ch#6)
2	NSAIDs (Non-selective cox inhibitors: Aspirin & other commonly used NSAIDs)			
3	Selective COX-2 inhibitors			
4	Paracetamol (Acetaminophen)			
5	Anti-histamines	Ch#16 Page#145	Ch#37...Histamine and Serotonin P#493	P#249-257 (Ch#6)
6	Serotonin agonist and antagonist			
7	Introduction to Chemotherapy		Ch#28 Page#355-364	Page#403-412 (Ch#11)
8	Penicillins	Ch#43 Page#368	Ch#29 P#368	Page#420-448 (Ch#11)
9	Cephalosporins			
10	Beta lactamase inhibitors			
11	Monobactams & Carbapenem,			
12	Vancomycin			
13	Fosfomycin Bacitracin & Cycloserine			
14	Protein synthesis inhibitors			
15	Tetracyclines			
16	Aminglycosides			
17	Macrolides & other related drugs			
18	Linezolid			
19	Clindamycin			
20	Streptogramins			
21	Chloramphenicol			

22	Quinolones	Ch#46 Page#390	Ch#31 P#400	P#412-420 (Ch#11)
23	Sulfonamides and Trimethoprim			
24	Antimalarials	Ch#59 Antimalarial topic only (p#435)	P#607-612 (Ch#46)	P#481-493 (Ch#11)
25	Antifungal drugs	Ch#48 Page#404	Ch#33 P#423	P#463-472 (Ch#11)
26	Antivirals	Ch#49 Page#411	Ch#34 P#436	Page#472-481 Ch#11
27	Anti-herpes			
28	Anti-HIV drugs			

Pathology/Microbiology (Mcqs=35)

FOUNDATION II MODULE (MCQS=12):

S.no.	Topics	Robins/Levinson	Pathoma/Sketchy
1	Introduction to the subject		
2	Introduction to cell	Lev; Ch#1 (P#)	
3	Classification of Bacteria	Lev; Ch#5 (P#24-25)	
4	Structure of bacterial cell	Lev; Ch#2 (P#4-14)	
5	Bacterial growth curve	Lev; Ch#3 (P#15-17)	
6	Normal Flora	Lev; Ch#6 (P#26-30)	
7	Bacterial genetics	Lev; Ch#4 (P#18-23)	
8	Lab diagnosis of bacterial infections	Lev; Ch#9 (P#59-67)	
9	Bacterial pathogenesis	Lev; Ch#7 (P#31-50)	
10	Antibacterial Vaccines	Lev; Ch#12 (P#94-97)	
11	Cellular injury, cell death	Robbins Chapter#2...Cell injury, Cell death and Adaptations Page#31-56	Pathoma Ch#1...Growth Adaptations, Cellular Injury and Cell death Page#
12	Cellular adaptation		
13	Necrosis		
14	Apoptosis		
15	Intracellular accumulations		Not Present
16	Pathologic calcification	Not Present	
17	Steatosis	Not present	

INFECTION AND INFLAMMATION MODULE (MCQS=23):

1	Cells of Inflammation	Robbins Ch#3 Page#57-96	Pathoma P#11-14 (Ch#2
2	Overview to Acute Inflammation and vascular phase		Pathoma P#11-14 (Ch#2)
3	Recognition of microbes		Pathoma P#11-14 (Ch#2
4	Cellular phase of acute inflammation		Pathoma P#11-14 (Ch#2
5	Plasma Derived Mediators		Pathoma P#11-14 (Ch#2
6	Cell Derived Mediators		Pathoma P#11-14 (Ch#2
7	Morphological patterns, outcomes, defects of inflammation		Not present
8	Overview to chronic inflammation		Pathoma P#14-16 (Ch#2

9	Granulomatous inflammation		Pathoma P#14-16 (Ch#2
10	Cells and mediators of chronic inflammation		Pathoma P#14-16 (Ch#2
11	Systemic effects of inflammation	same as above	Not present
12	Overview to tissue healing and repair		Pathoma P#19-21 (Ch#2
13	Tissue regeneration		Pathoma P#19-21 (Ch#2
14	Cell Cycle and its role in repair		Not present
15	Repair by scarring		Pathoma P#19-21 (Ch#2
16	Growth factors and receptors		Not present
17	ECM		Not present
18	Factors affecting wound healing/abnormal scarring		Pathoma P#19-21 (Ch#2
19	Bacteria: Pyrogenic Bacteria		Lev;Ch#14-16 P#105-133
20	Bacteria: Rickettsia	Lev; Ch#26 P#208	
21	Spore forming GP rods	Lev; Ch#17 P#134	
22	Non Spore forming GP rods		
23	Chlamydia	Lev; Ch#25 P#204	
24	Miscellaneous: Sepsis and Septic Shock	Lev; Ch#79 P#666	
25	Zoonotic Infections	Lev; Ch#20 P#173	
26	Parasites: Hydatid Cyst	Lev; Ch#54	
27	Tenia	Echinococcus (P#460) and Tenia (P#455) topics only	
28	Leishmania	Lev; Ch#52 Leshmainia (P#446), toxoplasma (P#439) & Plasmodium (P#435) topics only	
29	Toxoplasma		
30	Malaria		
31	Viruses: Corona	Lev; Ch#38 corona virus topic only P#314=315	
32	Viruses: HIV	Lev; Ch#45 P#377	
33	Viruses: Herpes viruses	Lev; Ch#37 Herpes topic only (P#286-291)	
34	Viruses: Tumor Viruses	Lev; Ch#43 P#359	
35	Viruses: MMR	Lev; Ch#39 Measles, Mumps and Rubella topics only P#318-323	
36	Fungi: Aspergillus	Ch#50 Aspergillus (P#418)and Candida (P#414) topics only	
37	Fungi: Candida		

Forensic Medicine (Mcqs=14)

s.no	Topics	Parikh	Amir Saleem	Naseeb R. Awan
Foundation II Module (mcqs=6)				
1	Introduction to the subject of Forensic Medicine			
2	Introduction to Law			
3	Introduction to medicolegal system			
4	Chain of evidence			
5	Legal proceedings			
6	PPC and CrPC			
7	Medical jurisprudence			
8	Introduction to Thanatology; Death			
9	Death certificate			
Infection and Inflammation Module (mcqs=8)				
1	Antidotes			
2	Steps of management in a case of poisoning			
3	Overview to medico-legal aspects of trauma (Wound causation)			
4	Toxicity by analgesics	P#689 Ch#59		
5	General outlines of identification	Ch#3		
6	Fetal age determination	P#63 Ch#3		
7	Age determination by skeletal study	P#63 Ch#3		
8	Age estimation by dental study	P#63 Ch#3		
9	Ages of medico legal significance	P#63 Ch#3		
10	Sex determination	P#60 Ch#3		
11	Race determination	P#60 Ch#3		
12	Examination of hair	P#517 Ch#34		
13	Forensic odontology	P#86 Ch#4		
14	Forensic Anthropometry			
15	Medico legal issues related to HIV patient			
16	Dactylography	P#71 Ch#3		
17	DNA finger printing	P#90 Ch#4		
18	Tattoos, scar marks,	P#74-77 Ch#3		

	Superimposition and facial reconstruction			
19	Polygraph			
20	Narcoanalysis	P#542 Ch#36		

Community Medicine (Mcqs=15)

S.no	Topics	Excell/ Any other source
Foundation II Module (mcqs=4)		
1	Introduction to the subject	
2	Health and disease	
3	Health system of Pakistan: Introduction	
4	Primary Health Care	
Infection and Inflammation Module (mcqs=10)		
1	Infectious disease epidemiology: incubation period, principles of disease eradication and control, serial intervals and infectivity period	
2	Infection control	
3	<ul style="list-style-type: none"> • Disease carriers • Reservoirs of infection • Disinfection • Communicable disease control measure (aimed at agent, host, others, administrative measures and vector control measures) 	
4	Nosocomial infection & its control	
5	Epidemiology and control of vector borne diseases: • Malaria • Dengue and other Viral haemorrhagic fevers and Arboviral infections • Plague • Filariasis	
6	Epidemiology & control of Leishmaniasis	
7	zoonotic and direct contagious diseases: • Rabies • Anthrax • Plague • Brucellosis • Tetanus • Scabies • Leprosy • Trachoma	
8	Malaria & Hepatitis control program teams (Family Medicine)	
9	Epidemiology & control of airborne diseases: measles, mumps, chickenpox, rubella, Diphtheria, Pertissus and meningitis	
10	Epidemiology & control of Corona virus infection	
11	Epidemiology and prevention of water borne diseases: • Cholera • Typhoid • Acute Diarrhea and Dysentery • Polio • Hepatitis A and E • Food poisoning • Amebiasis and Giardiasis • Brucellosis • Leptospirosis • Worm infestations	

Ophthalmology (Mcqs=5)

S.No.	Topics	Source
Foundation II Module (mcqs=3)		
	Introduction to the subject; Career in Ophthalmology	
	Refractory errors	
	Watery Eyes	
	Cataracts	
Infection and Inflammation Module (mcqs=2)		
	Acute and chronic dacrocystitis	
	Episcleritis	
	Infective conjunctivitis	

ENT (Mcqs=4)

s.no	Topics	Source if any
Foundation II Module (1)		
	Introduction to the subject	
Infection and Inflammation Module (3)		
	Acute and chronic Phyrangitis	
	Acute & chronic rhinitis	
	Acute & chronic sinusitis	
	Acute and chronic tonsillitis	

PRIME (Mcqs=03)

Foundation II Module (03)		
	Personal identity	
	Professional identity	
	Patient safety, clinical governance and quality improvement	
	Professionalism-Trust	
	Professional identity formation Types and Multiple identities	
	Motivation	
	Research Protocol	
	Health system research	
	Purpose and process of health research	

Infection and Inflammation Module (0)

Reaction to illness

Attributes of professionalism
empathy
steps of research process

Identifying study question

Literature review

Surgery (mcqs=02)

Infection & Inflammation Module (Mcqs=2)

Surgical infections

Anesthesia & pain relief

Acute abdomen

Medicine (mcqs=1)

Infection & Inflammation Module (Mcqs=1)

PUO (Pyrexia of unknown origin)

Pediatrics (Mcqs=1)

Infection & Inflammation Module

PUO

Child with Rash

Gynecology (mcqs=1)

Infection & Inflammation Module

Postoperative pyrexia

Postoperative wound sepsis

EDITIONS BOOKS WHOSE REFERENCES ARE GIVEN:

- Lippincot Pharmacology 7th edition
- Tara Pharmacology 5th edition
- Pathoma 2021 Edition (Fundamentals of pathology by Hussain A. Sattar)
- Robbins Basic Pathology 10th Edition (Medium Robbins Authors: Kumar, Abbas, Aster)
- Levinson Microbiology 16th edition

Note: Page numbers vary in each edition of the same book, so use chapter numbers if page numbers don't match.

WRITTEN BY: FARHAD KHAN, NMC BATCH 2K25

For the Third Year MBBS Students of Khyber Medical University

Block H

Modules: Multisystem-1, Blood and Immunology-2 & MSK-2

Note: 1. Edition to Edition variations occurs in page numbers of the same book so tally your book with editions used in preparing this document given at the end.

2. This document has some deficiencies which will be fulfilled soon and will be shared then.

3. If you found any error in this document kindly message our facebook/Instagram page.

Pharmacology (Mcqs=20)

Multisystem-I Module (Mcqs=12):

S.No.	Topics	Lippincot	Tara (5th edition)	Katzung Review
1	Introduction to the pharmacology of Autonomic Nervous System (ANS)	Unit-II (Ch#3-7) Page#37-102	Ch#2...Drugs acting on ANS (Whole Chapter)	Ch#6 (P#47), Ch#7 (P#60), Ch#8 (P#69), Ch#9 (P#76), Ch#10 (P#85)
2	Cholinomimetic drugs (Parasympathomimetic drugs)	Whole Unit	Page#52-109	(UNIT: II... Whole)
3	Anticholinergic drugs (Parasympatholytics)			
4	Ganglion-blocking drugs			
5	Sympathomimetic drugs			
6	Sympatholytic drugs (Adrenoceptor antagonists)			
7	Anticancer drugs			
8	Eicosanoids- Prostaglandins	Page#508-511 (Ch#38)	Page#257-260 (Ch#6)	Ch#18 (P#161)
9	Dermatologic preparations; creams, ointments, gels, lotions, pastes, powders, tinctures and wet dressings	Not Present (Search online)	Not present (Search online)	Not Present (Search online)
10	Drug treatment of scabies	Not Present	Page#538-539 (Ch#12)	Not Present
11	Drug treatment of Acne vulgaris	P#573-575 (Ch#43)	Page#543 (Ch#12)	Not Present
12	Drug treatment of Psoriasis	P#578-581 (Ch#43)	Page#539&542-543 (Ch#12)	Not Present
13	Herbal medications	Not Present	Not present	Ch#60 (P#507)

Blood and Immunology Module (Mcqs=3):				
14	Drugs used in anemia	Ch#42 (Page#565-569)	Tara: Page#324-332 (Ch#8); Topic: haematinics & erythropoietin	Ch#33 Page#275
15	Immune modulator drugs	Ch#36 (Page#481-489)	P#519 (Ch#12) Topic: immune-suppressants and immuno-stimulants	Ch#55 (P#463)
16	Anti-plasmin (antifibrinolytic) drugs	Not a clear topic better to cover from tara	Page#321 (Ch#8)	Ch#34 P#284 Selective topics: drugs used in bleeding disorders (290), Vit. K, Clotting factors and desmopressin, Antiplasmin agents.
17	Drug treatment of Haemophilia	Not a clear topic better to cover from tara	P#311-312 (Ch#8) under the topic of Systemic Agents	
Musculoskeletal-2 Module (mcqs=5):				
18	NSAIDs	P#511-517 (Ch#38)	Tara: P#260-269 (Ch#8)	Ch#36 P#304
19	Drug affecting Bone & Mineral Homeostasis	Ch#27 (Page#349-351)	P#389-396 (Ch#9)	Ch#42 P#357
20	Pharmacotherapy of Gout	Page#518-522 (Ch#38)	P#269-276 (Ch#6)	Ch#36 P#304
21	Pharmacotherapy of Rheumatoid Arthritis			
22	Skeletal muscle relaxants	P#173 (Ch#13) Very Short, better to cover from tara	Page#77-83 (Ch#2)	Ch#27 P#225
23	Drugs used for dermatological disorders	Ch#43 (P#572-581)	P#536-537 (Ch#12)	Not Present

Pathology/Microbiology (Mcqs=51)

Multisystem-2 Module (Mcqs=16):

Multisystem-2 Module (Mcqs=16):			
S.no.	Topics	Robins/Levinson	Pathoma/Sketchy
1	Genetics	Robbins: Ch#7...Genetics portion Only Page#243-272	Genetics is not present in PATHOMA; must cover it from Robbins
2	Mutations		
3	Transmission pattern of single Gene disorders		
4	Biochemical and molecular basis of single gene disorders		
5	Complex multigenic disorders		
6	Cytogenetic Disorders involving Autosomes		
7	Molecular genetic diagnosis	Page#291-296 (Last topic of Ch#7)	
8	Introduction to Neoplasia	Robbins: CH#6...Neoplasia (Whole Chapter)	Pathoma: Ch#3, P#23-30 Note: topics like Characteristics of Benign and malignant tumours, Molecular Basis of cancer and Diagnosis of Cancer ARE DEFICIENT
9	Nomenclature of Tumors		
10	Characteristics of Benign and Malignant Tumors		
11	Epidemiology of Cancer		
12	Molecular Basis of Cancer		
13	Carcinogenesis		
14	Types of Carcinogens		
15	Clinical Aspects of neoplasia		
16	Diagnosis of Cancer		
17	Pathways for tumor spread		
18	Grading and Staging of tumors		
19	Tumor immunity	Levinson: Ch#67 (P#571) Whole Chapter	NOT PRESENT
Blood and Immunology Module (Mcqs=22):			
20	Anemia	Robbins: Ch#12...Hematopoietic And Lymphoid System (Whole Chapter) Page#441-493	Pathoma: Ch#5...RBC disorders (Whole Chapter) Page#41-52
21	Blood loss (Anemia)		
22	Hereditary Spherocytosis		
23	Sickle cell Anemia		
24	Thalassemia		
25	Glucose 6 phosphate dehydrogenase deficiency		
26	Paroxysmal Nocturnal Hemoglobinuria		
27	Immune hemolytic anemia's		
28	Iron deficiency anemia		
29	Megaloblastic Anemia		

30	Aplastic Anemia	Same as Above (Continued)	Pathoma: Ch#6...WBC Disorders (Whole Chapter) Page#53-64	
31	polycythemia vera			
32	Acute Myelogenous Leukemia			
33	Chronic Myelogenous Leukemia			
34	Myelodysplastic Syndrome (MDS)			
35	Lymphoid Neoplasms			
36	Acute Lymphocytic Leukemia			
37	Chronic Lymphocytic Leukemia			
38	Plasma Cell Disorder			
39	Hodgekin' S Lymphoma			
40	Non-Hodgekin' S Lymphoma			
41	Thrombocytopenia & 2. Von-wille Brand Disease			Pathoma: Ch#4, Page#31-36 (Thrombosis and Embolism not Included)
42	Hemophilia			
43	Disseminated Intravascular Coagulopathy (DIC)			
44	Transfusion Medicine	Not Present		
45	Immunity	Robbins: P#121-134 (Ch#5)	Levinson: Ch#57-to-61 (P#489-544)	
46	Humeral Immunity			
47	Cell Mediated Immunity			
48	Antibodies	Robbins: P#134-144 (Ch#5)	Levinson: Ch#65(WholeChapter)	
49	Allergy & Hypersensitivity			
50	Immune Tolerance	Robbins: P#145-162 (Ch#5) Pathoma: P#17-19 (Ch#2)	Levinson: Ch#66 (P#578) (W.C)	
51	Autoimmune Diseases			
52	Immunodeficiency Diseases	Robbins: P#121-134 (Ch#5) Pathoma: P#16 (Ch#2) Deficient	Levinson: Ch#68 (P#591) (W.C)	
53	COMPLEMENT (System)	Robbins:P#75-77 (Ch#3)	Levinson: Ch#63 (P#533) (W.C)	

Note: Immunity topics are present in both Robbins and Levinson, take advice from seniors in this regard as how to study Immunology. (W.C=whole chapter)

MSK-2 Module (Mcqs=13):

54	Metabolic diseases of bone	Robbins; P#801-803 (Ch#21)	Pathoma: Ch#18 (P#191-199)
55	Fracture and Osteonecrosis	Robbins; P#805-816 (Ch#21)	
56	Osteomyelitis		
57	Bone Tumors		
58	Cartilage-Forming Tumors		

59	Tumors of Unknown Origin	Continued with above	Continued with above
60	Lesions Simulating Primary Neoplasms		
61	Osteoarthritis	Robbins; P#817-832 (Ch#21)	
62	Rheumatoid Arthritis		
63	Seronegative Spondyloarthropathies		
64	Infectious Arthritis		
65	Crystal-Induced Arthritis		
66	Tumors of adipose tissue		
67	Fibrous Tumors		
68	Muscle tumors	Robbins; P#425	
69	Rheumatic Fever		
70	Skeletal muscle atrophy and myopathies		
71	Inherited Diseases of Skeletal Muscle	Robbins; P#840-845 (CH#22)	
72	Important pathological terms; Macule, Papule, Nodule, Plaque, Vesicle, Bulla, Blister, Pustule, Scale, Lichenification, Excoriation, Hyperkeratosis, Parakeratosis, Acanthosis, Dyskeratosis, Acantholysis, Papillomatosis, Lentiginous, spongiosis, Urticaria, Pemphigus, Bullous pemphigoid, Warts	Robbins: Ch#24 (P#889-907) Whole Chapter except Topic: Lichen (P#893-894)	
73	Eczematous dermatitis		Pathoma: CH#19 (P#201-208)
74	Erythema multiforme		
75	Psoriasis		
76	Pre-malignant epithelial lesions		
77	Nevocellular Nevi and Malignant Melanoma		
78	Viral skin infections: HSV and Herpes Zoster	Levinson: Somewhere between P#286-298	
79	Fungal skin infections: Tinea Candida	Levinson: Tinea ...P#403-405 (Ch#48) Topic: cutaneous mycosis Candida: P#414-417 (Ch#50)	
80	Skin and soft tissue infections: Impetigo, cellulitis/ Erysipelas, Folliculitis, Skin Abscess (Furuncle & Carbuncle), Necrotizing Soft Tissue Infections	Levinson: Ch#77 (P#655-661) Whole Chapter	

Forensic Medicine (Mcqs=20)

Multisystem-1 Module (Mcqs=9):

s.no.	Topics	Parikh	Naseeb R. Awan	Jamiat
1	Poison & related laws			Ch#15 Whole Chapter
2	Legal duties of a Registered Medical Practitioner in a case of poisoning			
3	Fate of Poison	P#527-538 (Ch#36)		
4	Diagnosis of poisoning in living and dead			
5	Antidotes			
6	Steps of management in a case of poisoning			
7	Organophosphate group	P#649 (Ch#53)		P#222 (Ch#16)
8	Introduction to autopsy	P#94 (CH#5)		Ch#11 whole chapter
9	Modern autopsy suite			
10	Autopsy Protocol			
11	Exhumation	Ch#10 (P#142)		
12	Skeletonized body			
13	Negative autopsy			
14	Autopsy artifacts and hazards	Ch#9 (P#136)		
15	Infanticide	Ch#31 (P#441)		
16	Autopsy of an infected body	Ch#7 (P#131)		
17	Autopsy of fragmentary remains	P#125 (Ch#6)		
18	Embalming	P#545 (Ch#37)		
19	Thanatology/Death	Ch#11 (P#147-174)		Ch#10 whole Chapter except Death certificate
20	Postmortem changes			
21	Rigor mortis			
22	Cooling of dead body (Algor Mortis)			
23	Late P.M. changes & putrefaction			
24	Maceration			
25	Adipocere formation (Saponification)			
26	Mummification			
Blood & Immunology Module (Mcqs=2):				
27	FORENSIC EVIDENCE (trace evidence)			P#6 (confirm karna hai)

28	BLOOD GROUP SYSTEMS	P#491-500 (Ch#34)		P#17 ch#2
29	MEDICINE FORENSIC LAB PROCEDURES: · Forensic histopathology · Naked eye examination · Histological examination · Forensic histochemistry · Steam distillation · Micro-diffusion analysis · Stas-Otto method · Colour reaction method · Chromatography · Spectroscopy · Electrophoresis · Radio-activation technique			
30	BLOOD STAINS	P#500-509 (Ch#34)		P#17 ch#2
31	COLLECTION AND PRESERVATION OF BIOLOGICAL MATERIAL	Ch#35 P#522 whole chapter		
MSK-2 Module (Mcqs=9):				
32	Mechanism of production of wound	Ch#16 P#221-242		Ch#4 P#42-54 whole chapter
33	Abrasion			
34	Bruise			
35	Lacerated wound			
36	Incised Wound			
37	Stab wounds			
38	Age of Wound & Complication			
39	Battered baby Syndrome	P#374 Ch#23		
40	Qisas & Diyat			
41	Injured person medical aid act			
42	Work-men compensation laws			
43	Transportation Accidents	Ch#21 P#330		P#74 (Ch#6)
44	Firearm Injuries	Ch#17 P#243		Ch#5 P#55
45	Injuries By Explosives	P#371 Ch#22		Whole chapter
46	Thermal Injuries	Ch#22 (P#345)		Ch#7 (P#77)
47	Electrical Injuries			Whole chapter

Community Medicine (Mcqs=10)

Multisystem-1 module (Mcqs=3):

s.no.	Topic	Excel /any other source
1	Smoking	Excel; P#347 (Ch#23)
2	International Health	
3	Role of international health agencies in public health (WHO,UNICEF)	Excel; P#9-10 (Ch#1)
4	Child labor and Child Abuse	
5	Cancers	Excel; P#118-120 (Ch#5)
6		

Blood and Immunology-2 Module (Mcqs=4):

7	Epidemiology of nutritional anemias	Excel; P#286-287 (Ch#16)
8	Immunization and Vaccination	Excel; Ch#6 P#129-142
9	Epidemiology of blood borne diseases/infections	

MSK-2 module (Mcqs=3):

10	Ergonomics	Excel; P#228(Ch#13) given very short
11	Public health aspects of disability limitations: (Osteoporosis, Osteomalacia and Rickets)	
12	Rehabilitation of disabilities: Poliomyelitis	Excel; P#83-85 (Ch#4)
13	Accidents and its prevention	Excel; P#115-117 (Ch#5)

ENT (Mcqs=1)

S.no.	Topics	Source if any
MSK-2 Module:		
1	Ear (Anatomy)	
2	Nose, Para Nasal Sinuses & Oral Cavity (Clinical Anatomy)	

Medicine (Mcqs=5)

S.No.	Topics	Source if any
Multisystem-1 Module (Mcqs=1):		
1	General management of poisons	
Blood and Immunology-2 Module (Mcqs=2):		
2	Sickle Cell Anemia	
3	Myeloproliferative Disorders (MPN)	

4	Platelets (ITP)	
MSK-2 Module (Mcqs=2):		
5	Osteoporosis and Osteomalacia	
6	Rheumatoid Arthritis	
7	Ankylosing Spondylitis	
8	Myopathies	
9	Important pathological terms; Macule, Papule, Nodule, Plaque, Vesicle, Bulla, Blister, Pustule, Scale, Lichenification, Excoriation, Hyperkeratosis, Parakeratosis, Acanthosis, Dyskeratosis, Acantholysis, Papillomatosis, Lentiginousspongiosis, Urticaria, Pemphigus, Bullous pemphigoid, Warts	
10	Pre-malignant skin conditions	
11	Malignant conditions of skin	
12	Nevocellular Nevi	

Paeds (Mcqs=4)

S.no	Topic	Source
Blood and immunology-2 Module (mcqs=1):		
1	Thalassemia	
Msk-2 Module (mcqs=3):		
2	Bone pains and aches in children	
3	Skeletal dysplasia's	
4	Juvenile Idiopathic arthritis (JIA)	
5	Congenital/Hereditary Myopathies	
6	Duchene Muscular dystrophy (DMD)	
7	Juvenile Dermatomyocytis (JDM)	

Orthopedics (Mcqs=2)

s.no.	Topic	Source
Msk-2 Module:		
1	Fractures (types, pattern and angulations)	
2	Bone Tumors	
3	Bone and Joint Infections	
4	Application of Cast	
5	Soft Tissue Injuries, Spinal Injuries	

Eye (Mcqs=1)

S.No	Topic	Source
MSK-2 Module:		
1	Anatomy of Eye	

Research (Mcqs=5)

S.No.	Topic	Source
Mustlisystem-1 Module		
1	Research Ethics	
2	Referencing	
Blood and immunology-2 Module		
1	Academic writing and plagiarism	
MSK-2 Module:		
1	Qualitative and quantitative study designs	
2	Writing a Research Proposal	

PRIME Etc. (Mcqs=1)

Blood and immunology-2 Module		
1	Principles of medical ethics	
2	Confidentiality	
Msk-2 Module (Mcqs=1):		
2	Attributes of professional (Behavioral Science)	
3	Dealing with Patients (Communication skills)	

Radiology (Mcqs=0)

S.no.	Topics	Source
MSK-2 Module:		
1	X-Ray Interpretation	

EDITIONS BOOKS WHOSE REFERENCES ARE GIVEN:

- Lippincot Pharmacology 7th edition
- Tara Pharmacology 5th edition
- Pathoma 2021 Edition (Fundamentals of pathology by Hussain A. Sattar)
- Robbins Basic Pathology 10th Edition (Medium Robbins Authors: Kumar, Abbas, Aster)
- Levinson Microbiology 16th edition

Written by: Farhad Khan, NMC Batch 2k25

Block I (CVS-2 & Respiratory-2 modules)**Third Year Mbbs course content for Kmu****By Modular Medical Circle****Pharmacology (Mcqs=17)**

S.no.	Topic	Katzung Review	Lippincot	Tara
CVS-2 Module (mcqs=12)				
1	Antianginal drugs	Ch#12(P#103-111)	Ch#20(P#259-265)	P#125-137 Ch#3
2	Lipid lowering drugs	Ch#35(P#296-303)	Ch#22(P#287-297)	P#156-160 Ch#3
3	Anticoagulant drugs	P#284-290 (Ch#34)	Ch#21 (P#268-284)	P#310-324 Ch#8
4	Antiplatelet and thrombolytic drugs			
5	Antihypertensive drugs	Ch#11 (P#93-102)	Ch#16(P#203-215)	P#110-124 Ch#3
6	Drugs used in heart failure	Ch#13 (P#112-121)	Ch#18 (P#231-246)	P#137-146 Ch#3
7	Antiarrhythmic drugs	Ch#14(P#122-131)	Ch#19(P#248-257)	P#146-155 Ch#3
Respiratory-2 Module (mcqs=5)				
8	Anti-tussives	Not Present	Deficient	P#276-277 Ch#6 (given short)
9	Cough Suppressants			
10	Expectorants			
11	Tuberculosis	P#397-399(Ch#47)	P#413-419(Ch#32)	P#452-460 Ch#11
12	Asthma	Ch#20(P#172-180)	P#527 Ch#39	P#278-284 Ch#6

Pathology/Microbiology (Mcqs=42)

S.no.	Topic	Robins/Levinson	Pathoma/Sketchy
CVS-2 Module (mcqs=20)			
1	Atherosclerosis (+Arteriosclerosis)	Robbins; Ch#10 P#369-378	Pathoma; P#68-69 Ch#7
2	Ischemia and infarction	Robbins; Ch#11 P#408-419	Pathoma; P#73-76 Ch#8
3	Blood pressure regulation	Robbins; Ch#10 P#364-365	Not Present
4	Shock (+sepsis)	Robbins; Ch#4 P#115-119 OR Levinson; Ch#79 P#666-669	Not Present
5	Hypertension	Robbins; Ch#10 P#366-368 + Robbins;Ch#11 P#420-422	Pathoma; P#67-68 Ch#7
6	Aneurisms	Robbins; Ch#10 P#378-382	Pathoma; P#70 Ch#7
7	Aortic dissection		
8	Vasculitis	Robbins; Ch#10 P#382-396	Pathoma; P#65-66 Ch#7
9	Diseases of veins		Deficient (only vascular tumors is present=P#71)

10	Congestive heart failure	Robbins; Ch#11 P#399-408	Pathoma; P#76-78 Ch#8
11	Congenital heart diseases		
12	Valvular heart diseases		
13	Rheumatic fever	Robbins; Ch#11 P#422-435	Pathoma; P#78-84 Ch#8
14	Rheumatic heart disease		
15	Endocarditis		
16	Cardiomyopathies		
17	Thrombosis and Embolism	Robbins; Ch#4 P#106-114	Pathoma; P#36-39 Ch#4
Respiratory-2 Module (mcqs=22):			
1	Legionella		
2	H-Influenza	Levinson; Ch#19 P#167-171	
3	Bordetella		
4	Mycoplasma	Levinson; Ch#23 P#193-194	
5	Mycobacterium Tuberculosis	Levinson; Ch#21 P#179-186 + Robbins; Ch#13 P#526-531	Pathoma; P#89 Ch#9
6	Atelectasis		Not present
7	Acute Lung injury (ARDS)	Robbins; Ch#13 P#495-512	Pathoma; P#94-95 Ch#9
8	Obstructive Pulmonary disease		Pathoma; P#89-93 Ch#9
9	Restrictive or infiltrative lung		
10	Granulomatous diseases	Robbins; Ch#13 P#512-515	Not present
11	Diseases of vascular origin	Robbins; Ch#13 P#515-519	Deficient (only pulmonary HTN is present=P#94)
12	Pulmonary Infections (pneumonia)	Robbins; Ch#13 P#519-526	Pathoma; P#86-88 Ch#9
13	Lung abscess	Robbins; Ch#13 P#525	Not present
14	Empyema	Robbins; Ch#13 P#525 but is deficient so better to cover from an online resource/teacher slides	Not present
15	lung tumors	Robbins; Ch#13 P#537-544	Pathoma; P#95-98 Ch#9
16	Pleural lesions	Robbins; Ch#13 P#544-545	Deficient
17	Laryngeal tumors	Robbins; Ch#13 P#546-547	P#86 (only 3 lines given)

Note: 1. For respiratory pathology from Robbins Cover whole Chapter#13 (LUNGS) except the following topics: (i) Non-tuberculous mycobacterial disease (P#532) (ii) histoplasmosis, coccidioidomycosis and blastomycosis (P#532) (iii) Opportunistic fungal infections (535) (iv) pulmonary disease in HIV infection (537) (v) lesion of upper respiratory tract (acute infection) (545) (vi) nasopharyngeal carcinoma (546) as all these are short topics so I would suggest to cover whole chapter including these topics.

2. Above topics are shuffled for proper sequence.

Forensic Medicine (Mcqs=13)

S.no.	Topics	Jamiat (SAFE KMC)	Parikh
CVS-2 Module (mcqs=4):			
1	Chest trauma	P#74 (Ch#6) Short	P#319-322 (Ch#20)
2	Sudden death	P#127-128 (Ch#10)	P#149-152/Q#11.3 (Ch#11)
3	Cardiac poisons	Not present	Ch#57 (P#671-674)
Respiratory-2 Module (mcqs=9):			
1	Asphyxia (General Aspects)	Ch#9 P#91-108 Whole Chapter	Ch#13 Page#180-207 Whole Chapter
2	Hanging		
3	Mechanical asphyxia (Strangulation)		
4	Drowning		
5	Suffocation		
6	Smothering		
7	Chocking		
8	Gagging		
9	Overlaying		
10	Sexual asphyxia		
11	Traumatic asphyxia	P#74 (Ch#6)	
12	Asphyxiant (CO)	P#225-226 (Ch#16)	Ch#58 Page#679-685 Whole Chapter
13	CO2	P#240 Very Short	
14	H2S	P#245 Very Short	
15	War gases	P#226 (Ch#16)	

Community Medicine (Mcqs=8)

S.no.	Topics	Excell/Any other source
CVS-2 Module (mcqs=2):		
1	Non-communicable diseases: Cardiovascular diseases of public health importance	Excel; P#119-120 (Ch#5)
2	Hypertension	Excel; P#121-123 (Ch#5)
Respiratory-2 Module (mcqs=6):		
1	Tuberculosis	Excel; P#95-101 (Ch#4)
2	Influenza and COVID-19 infection	
3	Asthma	
4	Pneumoconiosis	Excel; P#229-232 (Ch#13)
5	Diphtheria and Pertussis	Excel; P#68-70 + 80-82 (Ch#4)

Medicine (Mcqs=15)

S.no.	Topics	Source
CVS-2 Module (mcqs=13):		
1	Coronary Heart disease (Chronic Stable Angina)	Step-up to Medicine; P#1-7 (Ch#1)
2	Acute coronary syndrome (MI)	Step-up to Medicine; P#7-14 (Ch#1)
3	Hypertrophic cardiomyopathy	Step-up to Medicine; P#33/34 (Ch#1)
4	Hypertension	Kaplan Medical; P#312-316
5	Heart failure	Step-up to Medicine; P#15-21 (Ch#1)
6	Disorders of heart rate and rhythm (Arrhythmias and heart blocks)	Step-up to Medicine; P#21-33 (Ch#1) [imp; topics: heart blocks, atrial fibrillation, ventricular tachycardia, ventricular fibrillation]
7	Pulmonary embolism	Step-up to Medicine; P#102-109 (Ch#2)
8	Pulmonary hypertension	
9	Myocarditis	Step-up to Medicine; P#35/36 (Ch#1)
10	Pericardial diseases	Step-up to Medicine; P#35-39 (Ch#1)
Respiratory-2 Module (mcqs=2):		
1	Respiratory symptoms	
2	differential diagnosis (of granulomatous inflammation including TB)	
3	Pulmonary TB	Step-up to Medicine; P#370-372 (Ch#10)
4	COPD	Step-up to Medicine; P#69-74 (Ch#2)
5	Asthma	Step-up to Medicine; P#74-77 (Ch#2)
6	Respiratory failure	Step-up to Medicine; P#94-97 (Ch#2)
7	Pneumothorax	Step-up to Medicine; P#84-86 (Ch#2)
8	Pleural effusion	Step-up to Medicine; P#82-84 (Ch#2)

Note: These references are taken from a PDF Version of the book that's why it is advisable to look for the respective topics in the content pages of the mentioned book to avoid any confusion. Chapter number could help you in this regard.

Pediatrics (Mcqs=8)

s.no.	Topics	Source
CVS-2 Module (mcqs=3):		
1	Cyanotic and acyanotic congenital heart disease	Pervez Akbar Paeds; P#336-350 Ch#13...Cardiovascular Diseases
2	Rheumatic fever	Pervez Akbar Paeds; P#258-264 Ch#10...Infectious Diseases

Physiology (Mcqs=2)

S.no.	Topics	Sources
CVS-2 Module:		
1	Cardiac cycle	
2	physiology of heart sounds and murmurs	
Respiratory-2 Modules:		
3	Mechanics of ventilation, different volumes and capacities of lungs and respiratory gas exchange.	

Biochemistry (Mcqs=2)

S.no.	Topics	Sources
CVS-2 Module:		
1	Lipoproteins and cholesterol	
Respiratory-2 Module:		
2	Effects of hyperventilation (e.g. Anxiety) and hypoventilation (e.g. COPD) on pH and blood gases, HCO ₃ and electrolytes.	

BOOKS WITH EDITIONS WHOSE REFERENCES ARE GIVEN:

1. Katzung & Trevor's Pharmacology Examination and Board Review (**Mini Katzung**) 12th Edition
2. Lippincott Pharmacology 7th Edition
3. Tara Pharmacology 5th edition
4. Robbins Basic Pathology (**Medium Robbins**) 10th Edition
5. Pathoma 2021 Edition
6. Parikh Forensic Medicine and Toxicology 9th edition
7. Jamiat Forensic Medicine and Toxicology (SAFE KMC) 10th edition
8. Excel Community Medicine and Public Health 13th Edition
9. Step-Up to Medicine 5th edition (PDF Version)
10. PL Dhingra (ENT) 7th Edition (PDF Version)
11. Pervez Akbar, Basics of Pediatrics, (PDF Version)

Written by:

Farhad Khan, Nmc Batch 2k25

Special Thanks to: Asif Shah, SMC & Usman Khan, Nmc

Respiratory-2 Module (mcqs=5):

1	Childhood Pneumonia	Pervez Akbar Paeds; P#281-285 Ch#11...Respiratory Disorders
2	ARIs(Croup and Epiglottitis)	Pervez Akbar Paeds; P#271-274 Ch#11...Respiratory Disorders
3	Respiratory distress syndrome(RDS)	Pervez Akbar Paeds; P#140-143 Ch#9...Neonatology
4	Reactive air way disease.	
5	Cystic fibrosis and bronchiectasis	Pervez Akbar Paeds; Ch#11...Respiratory Disorders

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ENT (Mcqs=6)

S.no.	Topics	Source
Respiratory-2 Module:		
1	Larynx anatomy	Dhingra; Ch#56 (P#319-323)
2	Laryngitis	Dhingra; Ch#58 (P#327-332)
3	Non –Neoplastic laryngeal lesions	Dhingra; Ch# 61(P#343-346)
4	Neoplastic laryngeal lesions	
5	Vocal cord Palsy	Dhingra; Ch#60 (P#337-341)
6	Emergency Tracheotomy	Dhingra; Ch#64 (P#359-363)

Note: these references are taken from a PDF version of Dhingra, That's why use chapter numbers if page numbers don't match.

Anatomy (Mcqs=2)

S.no.	Topics	Source
CVS-2 Module:		
1	Gross anatomy of heart, valves and coronary arteries	
Respiratory-2 Module:		
2	clinical anatomy of thorax including thoracic wall, lungs and trachea-bronchial tree anatomy	
3	different developmental stages of lung with its congenital anomalies	