

University of Health Sciences Lahore



POSTGRADUATE ENTRANCE TEST (PGET)

Table of Specifications

Paper I & II



+92 42 111 333 366
www.uhs.edu.pk
pget@uhs.edu.pk

**Department of Examinations, UHS &
Directorate of Postgraduate Studies,
UHS**

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



**These Tables of Specifications have been prepared
persuant to the Notification No. SO (ME-I) 7-1/2026
(Level -III PRP) dated 9th July, 2026 issued by
Specialized Healthcare & Medical Education
Department, Government of the Punjab.**



PREAMBLE

The **Postgraduate Entrance Test (PGET)** shall comprise **two papers**, each carrying **100 marks**, consisting of **100 Multiple Choice Questions (MCQs)** and having a duration of **two hours**.

Paper I shall assess the **Basic Medical Sciences** taught during undergraduate medical and dental education. Separate Paper I examinations shall be conducted for **MBBS graduates** and **BDS graduates**, based on their respective undergraduate curricula.

Paper II shall be **specialty-specific**. Separate Paper II examinations shall be conducted for each of the notified medical and dental specialties according to the specialty selected by the candidate.

Curriculum of PGET Paper II includes contents of MBBS Medicine curriculum and its clinical application covered during house job.

The **Tables of Specifications (TOS)** for Paper I and Paper II have been developed through a consultative process involving **subject experts from all public sector medical universities in Punjab**, along with subject experts from the relevant **Specialty Advisory Committees (SACs) of the University of Health Sciences, Lahore**.

This booklet provides the **topics and sub-topics to be covered in the examination, along with the distribution of questions against each topic/sub-topic**. It is intended to provide a clear and uniform framework for the preparation of PGET examination papers.

Development of Tables of Specifications

Step	Process
1. Engagement of Universities	All public sector medical universities in Punjab were engaged in the development of the Tables of Specifications.
2. Involvement of Subject Experts	Subject experts from the respective disciplines of these universities participated in identifying and reviewing the relevant topics and sub-topics.
3. Specialty Advisory Committees	Subject experts from the relevant Specialty Advisory Committees (SACs), UHS Lahore, also participated in the development and review process.
4. Preparation of TOS	The topics and sub-topics for each paper were finalized and the number/distribution of questions against them was determined.
5. Finalization	The Tables of Specifications were finalized after review and consultation with the participating subject experts.

Subject Experts Contributed for the development of Table of Specifications for Basic Medical Sciences

Prof. Dr. Urooj Zehra

Prof of Anatomy
University of Health Sciences, Lahore

Prof. Dr. Ambareen Hamid

Prof of Pathology
King Edward Medical University, Lahore

Dr. Saima Suleman

Assistant Prof. of Biochemistry
University of Health Sciences, Lahore

Prof. Dr. Shahid Mehmood Sethi

Prof of Community Medicine
University of Health Sciences, Lahore

Prof. Dr. Taskeen Zahra

Prof of Community Medicine
Fatima Jinnah Medical University, Lahore

Prof. Dr. Zubia Mushtaq

Prof of Pharmacology
Faisalabad Medical University, Faisalabad

Dr. Shahila Jaleel

Associate Professor of Pathology
Sheikh Zaid Medical Complex, Lahore

Dr. Gul Afshan

Assoc Prof of Anatomy
Fatima Jinnah Medical University, Lahore

Dr. Shoaib Ahmad Malik

Assoc Prof of Biochemistry
Faisalabad Medical University, Faisalabad

Dr. Bakhtawar Farooq

Assist. Prof. of Biochemistry
Nishtar Medical University, Multan

Dr. Farwa Batool Shamsi

Assoc Prof of Pathology
Faisalabad Medical University, Faisalabad

Dr. Kiran Fatima

Assoc Prof of Pathology
Rawalpindi Medical University, Rawalpindi

Prof. Dr. Uzma Zargham

Prof of Physiology
University of Health Sciences, Lahore

Prof. Dr. Muhammad Asif Naveed

Professor of Haematology
University of Health Sciences, Lahore

Prof. Dr. Muhammad Shahzad

Prof of Pharmacology
University of Health Sciences, Lahore

Prof. Dr. Sidrah Saleem

Prof of Pathology
University of Health Sciences, Lahore

Prof. Dr. Ali Madeeh Hashmi

Prof of Psychiatry and Behavioural Sciences
King Edward Medical University, Lahore

Prof. Dr. Muhammad Shakil

Prof of Biochemistry
King Edward Medical University, Lahore

Dr. Maham Javed

Assistant Professor of Histopathology
University of Health Sciences, Lahore

Dr. Maria Ilyas

Assoc Prof of Anatomy
Faisalabad Medical University, Faisalabad

Dr. Mudassar Zia

Assoc Prof of Biochemistry
Fatima Jinnah Medical University, Lahore

Dr. Aneela Jamil

Assist Prof of Biochemistry
Rawalpindi Medical University, Rawalpindi

Dr. Summayya Sikandar

Assoc Prof of Pathology
Fatima Jinnah Medical University, Lahore

Dr. Muhammad Sami Ullah

Assoc Prof of Pathology
Nishtar Medical University, Multan

[Handwritten signatures and stamps of the subject experts]

Dr. Shoaib Ahmad Malik
MBBS, MS, CHPE, PhD, Postdoc Fellow (USA)
Associate Professor
Head of Biochemistry Department, PMC
Faisalabad Medical University Faisalabad

Signatures: Gul Afshan, Shahila Jaleel, Farwa Batool Shamsi, Kiran Fatima, Uzma Zargham, Muhammad Asif Naveed, Muhammad Shahzad, Sidrah Saleem, Ali Madeeh Hashmi, Muhammad Shakil, Maham Javed, Maria Ilyas, Mudassar Zia, Aneela Jamil, Summayya Sikandar, Muhammad Sami Ullah.

PGET Paper 1**Basic Medical Sciences for MBBS graduates****Table of Specification (ToS)**

- PGET Paper 1 consists of **100 questions** from basic sciences.
- Basic Sciences include **specified contents of syllabus of MBBS** from the subjects of Anatomy, Physiology, Biochemistry, Pharmacology, General Pathology, Microbiology, Behavioral Sciences, and Community Medicine.

Sr.	Subject	Number of MCQs
1	Anatomy	20
2	Physiology	19
3	Biochemistry	11
4	Pathology	13
5	Community Medicine	12
6	Behavioral Sciences	05
7	Pharmacology	13
8	Microbiology	07
	Total	100

Sr	Subject	Topic	Sub-Topics	Number of MCQs
1	Anatomy	General Anatomy	Musculo-Skeletal system Types of bones and joints Structures related to muscles and joints; tendons, ligaments, aponeurosis Cardiovascular System Classification of blood vessels Anastomosis Applied aspects of lymphatic system	20 (Minimum of two MCQ's from each topic)
		Embryology	Cell division and gametogenesis Fertilization, cleavage, blastocyst formation and implantation of the embryo Stages of early embryonic development in second and third week of intrauterine life Development of embryo and foetus Foetal membrane (amniotic cavity, yolk sac, allantois, umbilical cord and placenta) Teratology	
		Histology	Epithelium & cell junctions Connective Tissue Bones & Cartilage	
		Upper Limb	Neuro-vasculature Brachial Plexus Dermatomes Major muscle groups of clinical and surgical importance Joints of upper limb Common Upper limb injuries and deformities Surface anatomy	

	Lower Limb	Neuro-vasculature Lumbar and Sacral Plexus Dermatomes Major muscle groups of clinical and surgical importance Joints of lower limb Common Lower limb injuries and deformities Surface anatomy	
	Head & Neck	Muscles of Facial expression and mastication Joints Neuro-vasculature Common facial injuries and deformities (Cleft lip and palate) Danger area of face and scalp	
	Thorax, Abdomen and Pelvis	Anatomy of Heart and Lungs Abdominal viscera Neuro-vasculature Muscles of pelvic floor Applied anatomy	
	Neuroanatomy	Blood Supply of Brain and Spinal Cord Overview Disorders Cerebral Cortex Common features Blood Supply Homunculus Lobes and their functions Spinal Cord General Features Spinal Cord Tracts Spinothalamic Tract Dorsal Column-Medial Lemniscus UMN-LMN Spinocerebellar Pathways Spinal Cord Lesions Brown-Sequard Syndrome Poliomyelitis Tabes Dorsalis Anterior Spinal Artery occlusion Ventricular System Overview CSF Production, Barrier and drainage Abnormalities and diseases Brain Stem Organization General features Cerebellum Functions Blood Supply Diseases Basal Ganglia Functions Common diseases	

[illegible]

			Neuron Action Potential and Synaptic Transmission Action Potential Different Phases Threshold Stimulus Properties of Action Potential; Refractory periods, Conduction velocity of Action Potential Effect of Electrolyte Disturbances Synaptic Transmission Neuromuscular Junction Synapses between neurons Electrical synapses	
		Cardiovascular Physiology (MCQs-3)	Electrical Activity of Heart Properties of Cardiac Tissue Automaticity Conduction pathway Cardiac Action Potentials Membrane Channels Phases of Action potential in Ventricular muscle Action Potential in Nodal Cells; Phases and difference from non-nodal Action potential Effect of Autonomic activity on heart Electrocardiography Leads Correlation of different phases of Action Potential with normal ECG. Cardiac Axis Deviation; Normal, Right and Left axis deviation	

	Respiratory Physiology (MCQs-2)	Lung Mechanics Lung Volumes and Capacities Ventilation Conducting and Respiratory Zones Muscles of Respiration Lung Compliance and Elasticity Pulmonary Function Testing FVC, FEV1 FVC:FEV1 Obstructive vs Restrictive patterns Alveolar-Blood Gas Exchange Partial pressures Factors affecting gas exchange Diffusion capacity Transport of O₂ and CO₂ O ₂ -Hb dissociation Curve Bohr Effect Carbon Monoxide Poisoning Transport of CO ₂ in blood Chloride shift and Haldane Effect Neural Regulation of Ventilation Central Chemoreceptors Location and Role in regulation Peripheral Chemoreceptors Location and Role in regulation Unusual Environments High Altitude Physiology Acclimatization Acute responses to high altitude: Hypoxemia Ventilation-Perfusion differences Regional differences Relationship of ventilation and perfusion Mismatch Causes of Hypoxemia	
	Hematology (MCQs-2)	Blood and its components Plasma Proteins and their functions Stages of Erythropoiesis and Regulation White Blood Cells their functions and role in immunity Platelets: characteristics and functions Steps in Hemostasis Clotting pathways and Clotting Factors Blood Grouping	
	Renal Physiology (MCQS-3)	Fluid Distribution and Edema Distribution of Fluid within the body Body compartments Forces of filtration and absorption Edema Types of edema and their pathophysiology Systemic Edema; its stages Vascular Overfill Edema Pulmonary edema	

		Renal structure and Glomerular Filtration Functional organization of the kidney Functions of a nephron Steps in urine formation Glomerular Filtration Factors determining net filtration pressure Glomerular Membrane Filtration Fraction Effect of Angiotensin Clearance as an estimate of GFR Clearance of some specific substances Inulin Glucose Creatinine Free Water clearance Sodium Urea Regional Transport Proximal Tubule Modes of transport Loop of Henle Movement of different substances in different segments and role of urea Distal Tubule Substances Reabsorbed Effect of different hormones Collecting Duct Types of cells and their functions Hormonal effects Acid-Base Disturbances Buffering Systems Primary disturbances and compensation Respiratory Acidosis Metabolic Acidosis Respiratory Alkalosis Metabolic Alkalosis	
	Endocrine Physiology (MCQs-3)	General aspects Lipid vs Water soluble hormones Protein bound vs Free circulating Hormone receptors Hormone specificity; exceptions Hormone activity Resistance to hormone action (Down Regulation) Permissive Action Disorders of Endocrine System; Hypofunction, Hyperfunction, Gland structure and size Hypothalamic-Anterior Pituitary System Hormones; source, regulation and effect Disorders	

			Posterior Pituitary Hormones; regulation, effect Disorders Adrenal Cortex Regions and Zones; Hormones produced by different regions and zones and their regulation Physiological Actions of Glucocorticoids Metabolic Actions of Cortisol Permissive Actions of Cortisol Physiological Actions of Aldosterone; its regulation, effect on electrolytes Disorders of Glucocorticoid and Mineralocorticoid synthesis; enzyme deficiencies Adrenal Medulla Hormones Epinephrine; actions on Liver, Skeletal muscles and adipose tissue Disorders; Pheochromocytoma Endocrine Pancreas Hormones Insulin; Actions on carbohydrate metabolism, protein metabolism, fat metabolism Peripheral uptake of glucose and tissues that are insulin dependent for glucose uptake; Adipose, Resting skeletal muscle, Liver (Glucokinase Stimulation) Insulin effect on Potassium Glucagon; Actions and effect on Liver glycogenolysis, Liver gluconeogenesis, Liver ketogenesis and lipogenesis, Ureagenesis, insulin secretion, Liver lipolysis Thyroid Hormones Synthesis Storage Circulation, Regulation Peripheral Action Male Reproductive Physiology Hypothalamic-Pituitary-Gonadal axis Prenatal effect of DHT and Testosterone Spermatogenesis Age related hormonal changes Female Reproductive System Menstrual Cycle; phases, hormonal regulation and effects Pregnancy; physiological changes Lactation; hormones involved, regulation	
--	--	--	---	--

		Gastrointestinal Physiology (MCQ-1)	Organization and functions of the GIT • Enteric nervous system • Gastrointestinal smooth muscle • Slow waves and spike potentials • Gastrointestinal hormones Gastrointestinal motility • Mastication and swallowing • Esophageal motility • Gastric motility and emptying • Small intestinal motility • Migrating motor complex • Defecation reflex	
3	Biochemistry	Genetics (03)	• Prokaryotic and Eukaryotic DNA and RNA synthesis. • DNA Repair and Diseases associated with DNA repair. •Protein Synthesis (Translation) •Biotechnology and Human disease	11
		Amino Acids, Proteins (01)	• Classification and functions of Amino Acids. • Nitrogen Balance • Metabolism of Ammonia, Urea cycle and associated diseases. • Heme degradation and Jaundice.	
		Enzymes (01)	• Clinical enzymology: Diagnostic and therapeutic application of enzymes.	
		Vitamins and minerals (02)	• Functions of water-soluble vitamins and associated diseases. • Functions of fat -soluble vitamins and associated diseases. Sources, functions and associated diseases of Minerals (iron, calcium, sodium, potassium and iodine)	
		Hormones and Signal Transduction (01)	• Role of membrane and intracellular receptors in hormone signaling. • Relate defects in signaling pathways to disease.	
		Energy metabolism (03)	• CHO metabolism ➤Glycolysis ➤Kreb’s Cycle ➤Electron Transport Chain • Lipid Metabolism ➤Fatty Acid biosynthesis and degradation ➤Lipoprotein metabolism ➤Cholesterol metabolism	

			➤ Ketone body metabolism • Metabolic profile of well-fed and fasted state. • Fatty liver	
4	Pathology (13)	Cell Injury	Ischemia, Hypoxia, Infarction and Autolysis. Irreversible and reversible injury Apoptosis and its significance. Necrosis and its types Exogenous and endogenous pigmentation. Dystrophic and metastatic calcification along with clinical significance Cellular adaptations (hypertrophy, hyperplasia, atrophy, metaplasia)	2
		Inflammation and Repair	Role of inflammation in the defense mechanisms of the body. Vascular changes of acute inflammation and their relation to morphological and tissue effects. Process of Chemotaxis, Opsonization and Phagocytosis. Role of cellular components in inflammatory exudate. Exudates and transudate. Important chemical mediators of inflammation. Role of products of Arachidonic acid metabolism in inflammation. Mechanism for development of fever, with reference to exogenous and endogenous pyrogens. Chronic inflammation including Granulomatous diseases Systemic effects of acute and chronic inflammation and their possible outcomes. Significance of ESR.	2
		Wound Healing	Repair and regeneration. Wound healing by first and second intention. Factors that influence the inflammatory reparative response. Wound contraction and cicatrization. Formation of granulation tissue. Complications of wound healing.	1
		Haemodynamics	Thrombo-embolic disorders and their modalities 1. Etiology and pathogenesis of thrombosis. 2. Possible consequences of thrombosis 3. Difference between thrombi and clots 4. Classification of emboli according to their composition.	2

		5. Difference between arterial and venous emboli. Hemorrhage, Hyperemia and Congestion 1. Definitions of common types of Hemorrhage 2. Types of hyperemia 3. Difference between hyperemia and congestion Infarction 1. Types of infarction 2. Difference between anemic and hemorrhagic infarct 3. Morphological picture of infarction in different organ systems Disorders of the circulation and shock 1. Edema, ascites, hydrothorax and anasarca. 2. Pathophysiology of edema with special emphasis on CHF. 3. Pathogenesis of four major types of shock (Hypovolemic, cardiogenic, vasovagal & septic) and their causes. 4. Compensatory mechanisms involved in shock.	
	Neoplasia	Dysplasia, Neoplasia, Anaplasia. Cell cycle and cell types (stable, labile, permanent) Mechanisms controlling cell growth Classification systems of tumors. Characteristics of benign and malignant tumors Difference between Carcinoma and Sarcoma. Grading and staging system of tumors. Biology of tumor growth Process of carcinogenesis Mechanism of local and distant spread. Local and systemic effects of tumors. Tumor markers used in the diagnosis and management of cancers. Common chemical, physical agents and viruses related to human cancer. Epidemiology of common cancers in Pakistan. Radiation and its effects on tissues. Cancer screening. Biomarkers of common cancers Paraneoplastic syndromes	3

		Genetics	Genes and human being Mendelian disorder Complex Multigenic Disorders Single-Gene Disorders with Nonclassic Inheritance With focus on: Diseases Caused by Common sex linked, autosomal recessive and autosomal dominant disorders. Common genetic mutations. Diseases associated with consanguineous marriages.	1
		Immunology	Antigen, antibody, epitope, hapten and adhesion molecules. Difference between innate and acquired immunity. Mechanism of humoral and cell mediated immunity. Hypersensitivity reactions, Type I, Type II, Type III and Type IV. Autograft, homograft, allograft and xenograft. Mechanism involved in allograft rejection and steps that can be taken to combat rejection. Classification of Immunodeficiency disorders Basis of autoimmunity. Tissue transplantation Lab diagnosis of immunological diseases.	2
	Microbiology (7)	Bacteriology	General Bacteriology Pathogenicity Colonization; methods Avoiding immune defense Antigenic Variation Toxins; Endotoxins and Exotoxins Culture of Micro-organisms; Stains, Special Media Bacterial genetic material Antibiotic resistance; mechanisms Sterilization Medically Important Bacteria Mycobacterium Tuberculosis Salmonella Staphylococcus Streptococcus Neisseria Trapaonema pallidum (syphilis) Clostridia E.coli Pseudomonas H.pylori Acinetobacter Atypical	3

		Virology	Structures Host resistance to viral infection; INF, Complements, Natural Killer cells Medically important Viruses Viral Hepatitis; types, transmission, role of different antigens (Focus of HepB), infectivity and mortality, diagnostic criteria of different Hepatitis viruses HIV; life cycle, transmission, diagnosis, complications, role of CD-4 levels Other medically important viruses Influenza Virus SARS-COV-2 Dengue	2
		Parasitology	Medically important parasites; transmission, infections, diagnosis Malaria Entamoeba Histolytica Ancylostoma Giardia Ascaris Lumbricoides Enterobius Vermicularis	2
	Community Medicine	Biostatistics	Descriptive Biostats (01) Data presentation Data summarization; Mean, Median, Mode, Standard Deviation, Variance, Range) Normal Distribution Probability Inferential Biostats (02) Z-Test Error of Mean Student's t-test Anova Chi-square test Alpha and Beta errors Hypothesis testing steps Correlation and regression (simple linear) P-value and confidence interval	03
		Epidemiology	Concepts of epidemiology and Disease Control (01) Health, demographic fertility and MCH indicators Models of Disease causation Levels of prevention Incidence and Prevalence of Disease Measures of Risk Infectious disease epidemiology (01) Chain of infection Disease carriers Nosocomial infections Opportunistic infections	02

			Iatrogenic Infections Herd Immunity Modes of infection transmission Quarantine and Isolation Incubation and latent period Disinfection and sterilization	
		Public Health Practice	Screening tests (01) 1. Validity and Reliability of screening test 2. False positive and false negative tests 3. Predictive value of positive and negative test 4. Lead time and length time bias Environmental and Occupational Health (01) 1. Hospital waste management 2. Disaster management 3. Occupational Hazards & Occupational diseases 4. Ergonomics 5. Radiation hazards Nutrition (01) 1. Micronutrient deficiency 2. Severe Acute and Moderate Acute malnutrition (SAM & MAM) Early Childhood development (ECD)	03
		Research methods & EBM	Study Designs (02) Quantitative 1. Cross-Sectional Study (Survey methods) 2. Case-Control study 3. Cohort study 4. Randomized Controlled Trial 5. Quasi experiments Qualitative 1. Participatory action research 2. Phenomenological research 3. Case study 4. Grounded theory 5. Ethnographic research Mixed method Research practice (02) • Research Ethics • Referencing, and avoiding Plagiarism • Research reporting guidelines (CONSORT, STROBE, PRISMA, MOOSE) • Systematic review and meta-analysis • Sampling Techniques and sample size	04

			- Designing questionnaire & testing its validity & Reliability - Publishing scientific papers, Peer review, Publication matrices - Adjusting confounding and reducing systematic errors (Bias)	
	Behavioral Sciences	Introduction to behavioral sciences and its importance in health	External and internal validity Bio-Psycho-Social Model of Health Care and the Systems Approach Normality vs Abnormality Link of Health with Behavioural Sciences (Psychology, Sociology, Anthropology) Importance of behavioral sciences in health Correlation of brain, mind and Behavioural Sciences Roles of a doctor Desirable Attitudes in Health Professionals	5 (Minimum one MCQ from each topic)
		Understanding Behavior	Sensation and sense organs Perception Attention and concentration Memory Thinking Communication	
		Stress and stressors	Classification of stress and stressors Stress management Relationship of stress and stressors with illness Concept of life events and their relationship with stress and illness coping skills Psychological defense mechanism Conflict and frustration Concept of adjustment and maladjustment	
		Doctor-Patient relationship	Doctor-patient relationship What is the concept of boundaries and psychological reactions in doctor patient relationship (such as transference and counter transference)	
		Psychological reactions	Grief and bereavement Family and illness Dealing with difficult patients Symptoms presentation and culture	
6.	Pharmacology	General Pharmacology	Pharmacokinetics, Pharmacodynamics, Receptors, Adverse effects and interactions (02)	13
		Autonomic Nervous System	Cholinergic Pharmacology, Adrenergic Pharmacology (02)	

		Central Nervous System	Sedatives, Anti-epileptics, Anti-psychotics, Anti-depressants and Opioids (02)	
		Chemotherapy and other important drugs	Anti-cancers and Immunosuppressants (01)	
		Cardiovascular Pharmacology	Anti-hypertensives, Anti-anginals, Heart failure drugs and Anti-arrythmics (02)	
		Endocrine pharmacology	Insulin, Oral Anti-Diabetics, Anti-thyroids and steroids (01).	
		Antimicrobials	Antibiotics, Resistance and major adverse effects (03)	

Recommended Books:

Clinical Anatomy by Regions – Richard Snell latest edition
 Clinically Oriented Anatomy by Keith L. Moore latest edition
 Clinical Neuroanatomy by Richard Snell latest edition
 General Anatomy by Laiq Hussain Siddiqui
 Langman's Medical Embryology by T.W Sadler latest edition
 Medical Histology Text and Atlas by Laiq Hussain Siddiqui latest
 Junqueira's Basic Histology Text and Atlas
 Katzung's Basic and Clinical Pharmacology latest edition
 Robbins and Cotran Pathological Basis of Diseases latest edition
 Park's Textbook of Preventive and Social Medicine
 Public Health and Community Medicine by Muhammad Irfanullah Siddiqui latest edition
 Review of Medical Microbiology and Immunology by Warren Levinson latest edition
 Lippincott Illustrated Reviews: Biochemistry latest edition
 Harper's Illustrated Biochemistry latest edition
 Guyton And Hall Textbook of Medical Physiology latest editions
 Handbook of Behavioural Sciences by Mowadat H Rana latest edition

Subject Experts contributed for the development of Table of Specifications for Medicine & Allied

Prof. Tahir Siddique

Prof. of Medicine

Services Institute of Medical Sciences, Lahore

Prof. Bilquis Shabbir

Prof. of Medicine

Fatima Jinnah Medical University, Lahore

Dr. Muhamad Adrees

Assoc. Prof. of Medicine

Faisalabad Medical University, Faisalabad

Prof. Naeem Afzal

Prof. of Medicine

King Edward Medical University, Lahore

Dr. Shahzad Alam Khan

Assoc. Prof. of Medicine

Nishtar Medical University, Multan

Dr. Muhammad Arif

Assoc. Prof. of Medicine

Rawalpindi Medical University, Rawalpindi

Dr. Hina Zameer

Assoc. Prof. of Medicine

Fatima Jinnah Medical University, Lahore

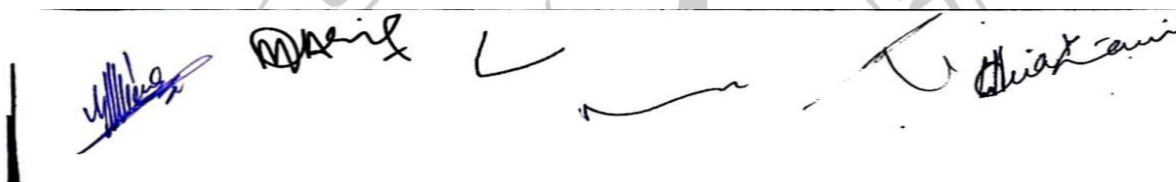


Table of Specification for PGET Paper II (Medicine & Allied)

Preamble

- TOS of PGET Paper II includes contents of MBBS Internal Medicine syllabus and its clinical application covered till completion of house job.

Sr.#	Subjects	Topics	Subtopics	MCQs
1.	Cardiovascular System	Acute Chest Pain	- History and presentation - Investigations - Differential diagnosis of acute chest pain: (aortic dissection, pericarditis, GERD, myocardial infarction)	14 (From any of the subtopics)
		Angina	- Stable angina - Unstable angina - Diagnosis - Tests ➤ Exercise Stress Test ➤ Chemical Stress Test (Dobutamine) ➤ Nuclear Test (Thallium uptake) - Management	
		Acute Coronary Syndrome	- STEMI - NSTEMI - Risk factors - ECG leads correlation with heart walls - Initial management - Percutaneous Intervention - Discharge medications	
		Congestive heart failure	- Systolic dysfunction ➤ Signs and Symptoms ➤ Acute management ➤ Chronic management ➤ Diagnosis (Radiological and Lab findings) - Diastolic dysfunction ➤ Signs and symptoms ➤ Diagnosis ➤ Management	
		Valvular heart diseases	- Mitral stenosis ➤ Clinical symptoms ➤ Physical signs ➤ Diagnosis (Auscultatory, ECG and Radiological findings) ➤ Management and Treatment - Mitral regurgitation ➤ Etiology ➤ Physical Signs ➤ Diagnosis (Auscultatory, ECG and Radiological findings) ➤ Treatment - Aortic stenosis ➤ Physical signs (Carotid thrill, Narrow pulse pressure)	

			➤ Diagnosis (Auscultatory, ECG and Radiological findings) • Aortic regurgitation ➤ Physical signs (Collapsing pulse, Large volume pulse, Wide pulse pressure) ➤ Diagnosis (Auscultatory, ECG and Radiological findings) ➤ Treatment	
		Miscellaneous	• Infective Endocarditis ➤ Etiology ➤ Presentation ➤ Clinical Findings ➤ Risk Factors ➤ Management • Rheumatic Fever ➤ Etiology ➤ Diagnosis ➤ Management • Congenital Heart Diseases	
		Cardiogenic Shock	• Etiology • Clinical features, signs and symptoms • Emergency management • Complications • Multi Organ Failure	
		Pericardial disease	• Acute pericarditis ➤ Etiology ➤ Clinical findings ➤ Diagnosis ➤ Management • Pericardial effusion ➤ Acute vs chronic ➤ Diagnosis ➤ Acute management ➤ Cardiac tamponade ❖ Signs and Symptoms ❖ Treatment • Constrictive pericarditis	
		Heart block	• First degree • Second degree • Third degree • ECG findings, Diagnosis, management	
		Arrhythmias	• Atrial ➤ Atrial flutter ➤ Atrial fibrillation ❖ ECG Findings ❖ Complications ❖ Management • Ventricular ➤ Ventricular tachycardia ➤ Supraventricular tachycardia ➤ Ventricular fibrillation ➤ Torsades de pointes	

			• Shockable vs non shockable: management and treatment • Cardioversion vs defibrillation • Pharmacological management of arrhythmias	
2.	Haematology	Anemias	• Microcytic anemia ➤ Iron Deficiency ❖ Clinical presentation ❖ Etiology ❖ Investigations ❖ Diagnosis ❖ Treatment ➤ Anemia of Chronic Disease ❖ Etiology ❖ Investigations ❖ Role of hepcidin ❖ Treatment ➤ Sideroblastic anemia ➤ Thalassemia ❖ Types ❖ Etiology ❖ Lab investigations ❖ Clinical presentation ❖ Diagnosis, RDW ❖ Physical signs ❖ Complications ❖ Management • Macrocytic anemia ➤ Vit. B12 Deficiency ❖ Microscopic findings ❖ Etiology and risk factors ❖ Lab investigations ❖ Confirmatory tests ❖ Treatment • Folic acid deficiency ❖ Role of folic acid ❖ Etiology and risk factors ❖ Management ❖ Role in pregnancy • Hemolytic anemias ➤ Acute vs chronic causes ➤ Presentation ➤ Lab investigations ➤ Confirmatory tests ➤ Autoimmune, drug induced hemolytic anemias ➤ Cold agglutinin disease • Hereditary spherocytosis ➤ Role of spectrin ➤ Clinical findings ➤ Management • G6PD Deficiency ➤ Clinical findings ➤ Precipitating factors ➤ Lab findings	09 (From any of the subtopics)

			➤ Microscopic picture ➤ Management • Sickle cell anemia ➤ Etiology ➤ Precipitating factors ➤ Complications ➤ Sickle cell crisis ➤ Parvo virus B19 infection in sickle cell anemic patients ➤ Treatment ➤ Role of hydroxyurea • Aplastic anemias	
		Neoplasia	• Acute leukemia ➤ Presentation ➤ Microscopic picture ➤ Lab investigations ➤ Role of leukocyte ALP score ➤ Complications ➤ Confirmatory diagnosis ➤ Treatment • Chronic leukemia ➤ Chronic myelogenous leukemia ➤ Etiology ➤ Diagnosis ➤ Treatment ➤ Chronic lymphocytic leukemia • Multiple myeloma ➤ Presentation ➤ Labs ➤ Treatment • Lymphoma ➤ Hodgkins ❖ Presentation ❖ B symptoms ❖ Stages ❖ Treatment ➤ Non-Hodgkin's ❖ Presentation ❖ Diagnosis ❖ Management • Tumor lysis syndrome	
		Platelet disorders	• Immune thrombocytopenia purpura ➤ Etiology ➤ Presentation ➤ Diagnosis ➤ Treatment • Von Willebrand Disease ➤ Presentation ➤ Tests for diagnosis ➤ Treatment ➤ Rationale for use of Desmopressin, Factor 8 replacement, FFP	

		Coagulopathies	• Hemophilia ➤ A & B ➤ Differences ➤ Presentation ➤ Management • Vitamin K deficiency ➤ Etiology ➤ Management • DIC ➤ Etiology ➤ Diagnosis ➤ Lab investigations and abnormalities ➤ Management • TTP & HUS ➤ Pentad and Triad ➤ Etiology ➤ Management	
3.	Nephrology	Acute renal failure	• Pre renal azotemia ➤ Etiology ➤ Lab investigations ➤ Clinical presentation ➤ Hepatorenal syndrome • Post renal azotemia ➤ Etiology ➤ Lab findings ➤ Presentation ➤ Diagnosis ➤ Management • Intra renal azotemia ➤ Acute tubular necrosis ❖ Etiology ❖ Diagnosis ❖ Risk factors ❖ Management ➤ Allergic interstitial nephritis ❖ Diagnosis ❖ Specific lab findings ❖ Etiology ❖ Management	08 (From any of the Subtopics)
		Glomerulonephritis	• Nephrotic vs Nephritic syndrome ➤ Clinical presentation ➤ Distinguishing features ➤ Lab abnormalities • Nephritic syndrome ➤ RPGN ❖ Etiology ❖ Confirmatory tests ❖ Management ➤ IgA Nephropathy ❖ Etiology ❖ Confirmatory tests ❖ Management ➤ Alport syndrome ❖ Etiology ❖ Associated symptoms	

			• Nephrotic syndrome ➤ Etiology ➤ Lab findings ➤ Management	
		Chronic Renal Failure	• Stages • Etiology • Presentation • Management • Complications • End stage renal disease	
		Renal Replacement Therapy	• Endocrine and non-endocrine functions • Management of symptoms caused by CKD	
		Dialysis	• Rationale of use • Indications (A, E, I, O, U) • Frequency	
4.	Pulmonology	Tuberculosis	Diagnosis of MDR Tuberculosis Complications and Drug Interactions of ATT	10 (From any of the Subtopics)
		Asthma	Treatment of Status Asthmaticus/Acute Asthma	
		Chronic Obstructive Airway Disease	Step Wise Management & Treatment	
		Respiratory Failure	Recognition of Complications and their Management	
		Pneumonia other Lung Infections	Recognition, Diagnosis and Management of Atypical pneumonia, Etiology, Diagnosis, & Treatment of Lung abscess	
		Pulmonary Embolism	Etiology, Diagnosis, Role of DOACS	
		Sarcoidosis	Recognition of extra pulmonary manifestations, Investigations, Management & Treatment	
		Pulmonary Hypertension	Etiology ECG Findings Treatment	
		Interstitial Lung Disease	Occupational Lung disease Diagnosis & Management	
5.	Endocrinology	Diabetes Mellitus	The diagnostic criteria for diabetes mellitus; identify the different types -Diabetes management (range of OHDs and insulins available and their appropriate use in clinical setting) -Blood glucose monitoring techniques including CGMS -Diabetic emergencies (HHS, DKA, DM Management during surgery)	10 (From any of the Subtopics)

			-Complications of DM (Screening, referral and management) -Diabetes in pregnancy	
		Thyroid	- Interpreting thyroid function to diagnose thyroid disease -Diagnosis and management of Graves' Disease, thyroid eye disease (TED), hypothyroidism -Thyroid nodule evaluation	
		Reproductive Endocrinology	-Polycystic ovarian syndrome -Hypogonadism; primary and secondary; Turner's / Klinefelter's syndromes) -Infertility (causes, evaluation, management) -Interpretation of tests of hypothalamic-pituitary gonadal axis	
		Hypothalamus & Pituitary	-Pituitary tumors (diagnosis & management) -Interpreting basal and dynamic tests of pituitary function (Insulin tolerance test, water deprivation test) -Diagnosis & management of hypopituitarism -SIADH -Diagnosis & management of endocrine growth disorders -Assessment of normal growth and pubertal stages by relevant charts	
		Adrenal	-Interpret adrenal function tests (Synacthen test) -Diagnosis & management of Cushing's / Addison's disease -Investigate suspected Endocrine Hypertension (Pheochromocytoma) -Emergency management of acute adrenal crisis -Congenital adrenal hyperplasia	
		Parathyroid & Calcium	-Hyper and hypocalcemia (causes & treatment) -Osteoporosis (screening & treatment) -Evaluation of Renal stones (endocrine causes)	
		Others	-Obesity (pathophysiology, complications, management strategies) -Lipid disorders (types, screening, management) -Neuro-endocrine tumors -Multiple endocrine neoplasia	

			-Electrolyte disturbances	
6.	Infectious diseases	COVID-19	Pathophysiology, Diagnosis, lab investigations & management	10 (From any of the Subtopics)
		Dengue, Measles, Malaria	Pathophysiology, Differential Diagnosis & Management	
		Crimean Congo Hemorrhagic Fever	Etiology, Differential Diagnosis + management	
		HIV	Diagnosis, Recognition of Associated Opportunistic Infection + Management	
		Enteric fever	Differential, Treatment of XDR + MDR Enteric Fever	
		Leptospirosis	Epidemiology, Clinical Presentation and Diagnosis	
		Febrile Neutropenia	Differential Diagnosis & Management	
		Pyrexia of unknown origin	Etiology, Diagnosis & Management	
7.	Rheumatology	Bone & Joint disorders	To describe common clinical manifestations, differential diagnosis, diagnostic workup and management plan for • Osteoarthritis • Osteoporosis • Rheumatoid arthritis and related arthropathies • Paget's disease of the bone. • Osteopetrosis (marble bone disease). • Multiple myeloma	06 (From any of the Subtopics)
		Multi-system Immunological diseases	To describe clinical presentation, differential diagnosis, laboratory workup and management plan for • Systemic lupus erythematosus (SLE) • Serum sickness • Systemic sclerosis (scleroderma). • Mixed connective tissue diseases (brief). Sjogren's syndrome (brief).	
			• Ankylosing spondylitis. • Bechet's syndrome (brief). • Vasculitis syndromes (brief). • Anaphylactoid purpura • Polyarteritis nodosa • Hypersensitivity vasculitis • Wegner's granulomatosis • Temporal arteritis • Takayasu's arteritis • Thromboangitis obliterans (Burger's disease) Sarcoidosis (brief).	

8.	Dermatology	Anatomy & Physiology of Skin	To describe Anatomy, physiology of skin related to clinical dermatology	05 (From any of the Subtopics)
		Infestations & Infections	To approach for diagnosis and management of patients with Infestations/infections: • Scabies • Pediculosis. • Bacterial and mycobacterial infections • Fungal and viral diseases.	
		Skin Diseases	To describe skin manifestations, differential diagnosis and management of • Acne vulgaris • Eczemas. • Psoriasis • Lichen planus • Bullous disorders. • Pigmentary disorders • Disorders of nails. • Disorders of hairs. • Sexually transmitted diseases.	
9.	Hepatology	Jaundice	Approach for diagnosis and management of patients with • Congenital hyperbilirubinemia • Gilbert syndrome • Dubin Johnson syndrome • Rotor syndromes • Hemolytic jaundice • Obstructive jaundice	06 (From any of the Subtopics)
		Hepatitis	To diagnose and manage patients of acute and chronic Hepatitis due to • Hepatitis A, B, C, D, • Toxins • Drugs • Auto immune hepatitis. • Wilson's disease • Hemochromatosis	
		Liver Cirrhosis	To describe clinical manifestations, differential diagnosis and management of patients with • Cirrhosis of liver. • Hepatic encephalopathy • Ascites • Carcinoma liver and transplant. • Upper GI bleeding, lower GI bleeding To describe Drugs contraindicated in liver	
		Pancreas	Diseases To describe etiology, pathophysiology, clinical manifestations, diagnostic work up and management plan for patients of • Acute pancreatitis • Chronic pancreatitis	

10.	Gastroenterology	Oral cavity & Esophagus	Oral cavity To approach with differential diagnosis and management plan for common oral cavity related • Infections and inflammatory disorders Benign and malignant diseases	12 (From any of the Subtopics)
			Esophagus To diagnose and manage Dysphagia with special reference to • Ca esophagus • GERD • Achalasia Candidiasis of oral cavity and esophagus	
		Stomach, Small Intestine & Large intestine	Stomach To diagnose and manage • Gastritis • Peptic ulcer	
			• Intestinal and • peritoneal tuberculosis • Inflammatory bowel diseases. • Ulcerative colitis • Crohn's disease • Irritable bowel syndrome (IBS).	
11.	Central Nervous System	Headache	• Headache syndrome • Migraine headache • Tension band headache • Cluster headache • Acute and prophylactic management of headaches • Role of ergotamine derivatives in Migraine • First Line, Second line treatments for migraine	10 (From any of the Subtopics)
		Degenerative and dementing disorders	• Parkinsonism • ALS/MND • Alzheimer Disease • Wilson Disease • Vitamin B12 deficiency • Alcohol Abuse ➤ Wernicke Encephalopathy ➤ Korsakoff Psychosis	
		Infections of CNS	• Meningitis ➤ Acute aseptic (viral) ➤ Acute purulent (bacterial) ➤ Sequelae ➤ Diagnosis ➤ Clinical signs ➤ Radiological findings ➤ CSF analysis ➤ Management • Toxoplasmosis ➤ Mode of transmission\ ➤ Diagnosis ➤ Management	

			• Cerebral Abscess ➤ Etiologies ➤ Radiological Findings ➤ Clinical manifestations ➤ Management	
		Intracranial mass, lesions and raised intracranial pressure (ICP)	• Raised intracranial pressure • Brain tumors • Paraneoplastic neurological disease • Hydrocephalus • Idiopathic intracranial hypertension • Head injury	
		Diseases of peripheral nerves	• Entrapment neuropathy • Multifocal neuropathy • Guillain-Barre syndrome	
		Diseases of neuromuscular junction	• Myasthenic Syndromes ➤ Myasthenia Gravis ➤ Lambert-Eaton myasthenic syndrome	
		Diseases of muscles	• Muscular dystrophies • Inherited metabolic myopathies • Acquired myopathies	
		Disorders of spine and spinal cord	• Cervical spondylosis • Lumbar spondylosis • Spinal cord compression • Intrinsic diseases of the spinal cord	
			Total	100

Reference Books:

Davidson's Principles and Practice of Medicine Latest Edition

Subject: Experts Contributed for the development of Table of Specifications for Gynaecology & Obstetrics

Prof. Dr. Tayyaba Waseem

Prof of Gynae & Obst

Principal AIMC/ Jinnah Hospital Lahore

Prof. Dr. Nadia Khurseed

Prof of Gynae & Obst

King Edward Medical University, Lahore

Prof. Dr. Alia Bashir

Ex-Prof. of Gynae & Obst

AIMC/ Jinnah Hospital, Lahore

Prof. Dr. Hina Masood

Assoc. Prof. of Gynae & Obst

Fatima Jinnah Medical University, Lahore

Dr. Shagufta Tabassum

Assoc Prof of Gynae & Obst

Nishtar Medical University, Multan

Dr. Ammara Niaz

Assist. Prof. Gynae & Obst

Faisalabad Medical University, Faisalabad

Dr. Saima Bibi

Assist. Prof of Gynae & Obst

Rawalpindi Medical University, Rawalpindi



PGET Paper II (Obstetrics and Gynaecology)

Table of Specification

Curriculum of PGET Paper II includes contents of MBBS Medicine curriculum and its clinical application covered during house job.

Sr.#	Subject	TOPIC	SUBTOPIC	MCQs
1.	Anatomy of Reproductive and Genital tract (15)	Detailed anatomy of female reproductive system	Female anatomy (external genitalia, internal reproductive organs, ligaments, fascia, blood supply, lymphatics, nerve supply)	03 (From any of the subtopics)
		Detailed anatomy of female pelvis	Bones, muscles, pelvic floor, rectouterine and rectovesical pouches and viscera with vasculature and lymphatic drainage, nerve supplies and anatomical relations	02 (From any of the subtopics)
		Embryology	Abdomen Pelvis	02 (From any of the subtopics)
		Histology	Female and male reproductive organs and genital urinary tract	02 (From any of the subtopics)
		Developmental defects in the female genitourinary tract.	Structural problems of pelvic organs	03 (From any of the subtopics)
		Breast	Anatomy Embryology Histology	01 (From any of the subtopics)
		Placenta	Function Structure Development	02 (From any of the subtopics)
2.	Reproductive Physiology (23)	Endocrine	Production, regulation, feedback loops of various endocrine hormones including thyroid, parathyroid, pituitary, gonadotrophic hormones, gonadal hormones. Prolactin hormone production and regulation. Prolactin-Mechanism and regulation of lactation.	04 (From any of the subtopics)
		Menstrual cycle/ Ovarian cycle (Normal & Abnormal)	Hypothalamic-pituitary-ovarian axis Puberty and menarche mechanism and hormonal contribution and regulation Disorders of menstrual irregularity	07 (From any of the subtopics)

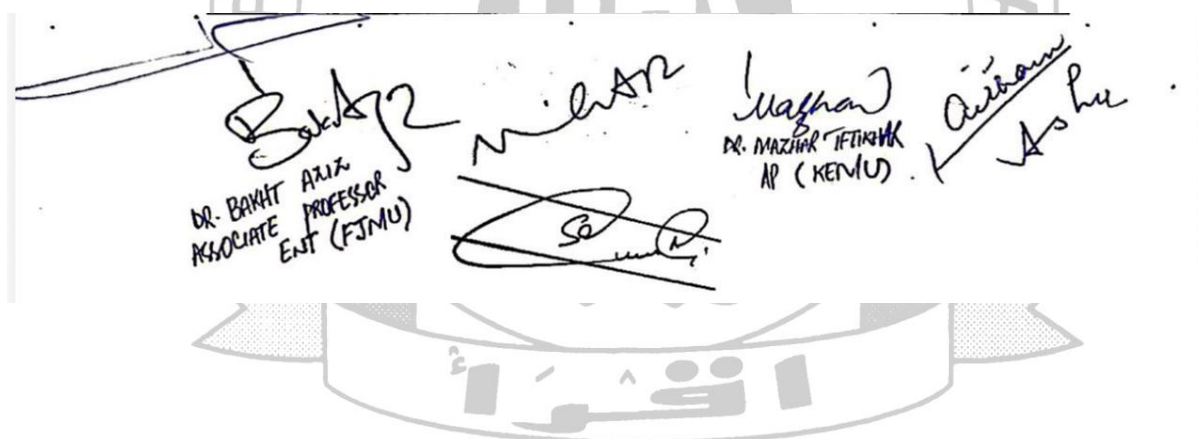
			disorders of menstrual bleeding (HMB, IMB, PCB, PMB) Female/Male Fertility	
		Disorders of gonadal hormone production	Gonadal steroidogenesis and its aberrations precocious puberty, delayed puberty, pseudo and true hermaphroditism, ambiguous genitalia	02 (From any of the subtopics)
		Menopause	Physiological and non-physiological menopause HRT	03 (From any of the subtopics)
		Maternal physiological changes in normal pregnancy.	Hormonal factors in pregnancy Physiological changes Fetal physiology	04 (From any of the subtopics)
		Placental hormones	Functions of placenta Role of placental hormones in pregnancy. Anomalies	03 (From any of the subtopics)
3.	Biochemistry (03)	Metabolic pathways	Role of insulin in metabolism Various metabolic pathways Gonadal steroidogenesis and its aberrations.	03 (From any of the subtopics)
4.	Maternal Pharmacology (19)	Teratogenic drugs	Teratogenesis and teratogenic drugs and their safe alternatives in pregnancy.	02 (From any of the subtopics)
		Drugs in breast milk	Presence of drugs in breast milk and their effect on baby.	01 (From any of the subtopics)
		Anesthetics	Local and general anesthesia and epidural analgesia.	02 (From any of the subtopics)
		Tocolytics	Tocolytic drugs and their mechanisms of action (beta agonist, calcium channel blockers, NSAIDS, magnesium sulphate etc.)	02 (From any of the subtopics)
		Drugs for labor induction	Drugs for labor induction and augmentation (oxytocin, prostaglandins)	03 (From any of the subtopics)
		Hormonal treatments and Contraceptives	Hormonal treatments for menstrual disorders Contraception (Male & Female) Reversible & Irreversible	05 (From any of the subtopics)
		Miscellaneous	• Antihypertensive drugs. • Oral hypoglycemic drugs • Insulin • Antibiotics • Analgesics	04 (From any of the subtopics)

5.	Prenatal, Antenatal Care (10)	Overview	• calculation of LMP, EDD • booking investigations • infection screening	02 (From any of the subtopics)
		Labour and Puerperium	• Normal Labour • Puerperium and its complications	05 (From any of the subtopics)
		Assessment of fetal well being	• CTG • Prenatal Diagnosis	03 (From any of the subtopics)
6.	Pathology in relation to obstetrics and gynecology (21)	Benign and Malignant conditions	• Benign disorders • Gynecological malignancies.	07 (From any of the subtopics)
		Implantation and early pregnancy	• Miscarriage • Ectopic Pregnancy • Gestational Trophoblastic disease • Intrauterine death • IUGR	06 (From any of the subtopics)
		Obstetric Complications	• Obstetrics hemorrhage • Multiple Pregnancy • Preterm labour	04 (From any of the subtopics)
		Diabetes Hypertension	Diabetes & Hypertension in relation to pregnancy	04 (From any of the subtopics)
7.	Common congenital anomalies	Blood disorders	• Blood disorders (thalassemia, various anemias, coagulation disorders and its types.) • Jaundice and its various causes and mechanisms during pregnancy.	02 (From any of the subtopics)
8.	Infections	Modes of transmission, management, complications	• Perinatal and post operative infections. • Infectious and communicable diseases (HBV, HCV, HIV, HAV, HEV, HSV, HPV, STI, Parvo virus B-19, TORCH infection and syndrome etc.) • Covid, Dengue, Malaria	02 (From any of the subtopics)
9.	Biostatistic and research and Biophysics		• Essential epidemiological data in obstetrics and gynecology especially for Pakistan. • Study Design	05 (From any of the subtopics)
Total				100

At least Ten (10) questions shall be from Attitude domain of learning.

Subject Experts Contributed for the development of Table of Specifications for
Otorhinolaryngology (ENT)

Prof. Dr. Kashif Iqbal Malik Chairperson Specialty Advisory Committee, UHS	Prof. Dr. M. Irshad Malik Professor of ENT Allama Iqbal Medical College, Lahore
Prof. Dr. Shahbaz Mujtaba Ghauri Professor of ENT Services Institute of Medical Sciences, Lahore	Dr. Nisar Akbar Khan Assoc. Prof. of ENT Faisalbad Medical University, Faisalabad
Dr. Bakhat Aziz Assoc. Prof. of ENT Fatima Jinnah Medical University, Lahore	Dr. Salman Ali Assoc. Prof. of ENT Nishtar Medical University, Multan
Dr. Mazhar Iftikhar Assoc. Prof. of ENT King Edward Medical University, Lahore	Dr. Haitham Akaash Assoc. Prof. of ENT Rawalpindi Medical University, Rawalpindi



PGET Otorhinolaryngology (ENT)

Table Of Specification

No.	Subject(s)	Topic(s)	Subtopic(s)	No. of MCQs (For topics not for sub-topics)
1.	Ear	External Ear	Surgical Anatomy and Physiology Pinna External Auditory Canal Tympanic Membrane Tumours of External Ear	05
		Middle Ear	Surgical Anatomy and Physiology Infections Conductive Hearing Loss Otosclerosis Eustachian Tube Facial Nerve	12
		Inner Ear	Surgical Anatomy and Physiology Menier's disease Sensoryneural Hearing Loss CP Angle Tumours Deafness in Children	08
2	Nose	External Nose and Nasal Vestibule	Surgical Anatomy and Physiology Deformities of Nose Trauma Infections Tumour	03
		Nasal Cavity	Surgical Anatomy and Physiology Specific and Non Specific Infections Allergic and Non Allergic Rhinitis Polyps Epistaxis	05
		Paranasal Sinuses	Surgical Anatomy	07

			and Physiology Acute and Chronic Sinusitis Neoplasms Proptosis CSF Leak	
3.	Throat	Oral Cavity	Surgical Anatomy and Physiology Infections Ulcers Tumours	05
		Oropharynx	Surgical Anatomy and Physiology Infections Tumours	05
		Nasopharynx	Surgical Anatomy and Physiology Adenoid Tumours	05
		Hypopharynx	Surgical Anatomy and Physiology Tumours Dysphagia	05
4.	Head and Neck	Face	Surgical Anatomy and Physiology of Face Benign Disorders Malignant Disorders	02
		Neck	Surgical Anatomy and Physiology of Neck Benign Disorders Malignant Disorders	10
		Thyroid	Surgical Anatomy and Physiology Malignant Disorders Non Malignant Disorders	03
		Salivary Glands	Surgical Anatomy and Physiology Infections Tumours	03
		Congenital Lesion in Neck	Surgical Anatomy and Physiology Thyroglasal Cyst Branchial Cyst and Fistula Cystic Hygroma	03

		Neck Spaces	Surgical Anatomy and Physiology Infections Tumours	04
5	Larynx and Oesophagus	Larynx	Surgical Anatomy and Physiology Trauma Congenital Lesions Hoarseness Tumours Speech Disorders Tracheostomy	10
		Oesophagus	Surgical Anatomy and Physiology Dysphagia Foreign Bodies Disorders of Oesophagus	05



Subject Experts Contributed for the development of Table of Specifications for Ophthalmology

Prof. Dr. Soufia Farrukh

Prof of Ophthalmology
Principal, Quaid e Azam Medical College
Bahawalpur

Prof. Dr. Nasir Chaudhary

Prof of Ophthalmology
King Edward Medical University, Lahore

Prof. Dr. Tayyaba Gul Malik

Prof of Ophthalmology
PGMI/LGH Lahore

Dr. Shabana Chaudhary

Associate Prof. of Ophthalmology
University of Child Health Sciences, Lahore

Dr. Rizwan Ahmed

Assoc Prof of Ophthalmology
Faisalabad Medical University, Faisalabad

Dr. Sidra Jabeen

Assoc Prof of Ophthalmology
Rawalpindi Medical University, Rawalpindi

Dr. Sara Riaz

Assoc Prof of Ophthalmology
Fatima Jinnah Medical University, Lahore

Dr. Majid Hussain

Assist Prof of Ophthalmology
Nishtar Medical University, Multan



PGET PAPER II (Ophthalmology)

Table of Specification

No.	Subject(s)	Topic(s)	Subtopic(s)	No. of MCQs
1	Basic sciences related to ophthalmology (23)	Ocular Anatomy	1. Cornea 2. Conjunctiva 3. Sclera 4. Retina 5. Lens 6. Uveal tract 7. Optic nerve 8. Visual pathway	06
		Ocular Physiology	1. Nature and formation of intra ocular fluid 2. Circulation of aqueous humor 3. Neurology of vision 4. Physiology of vision 5. Ocular signs	10
		Ocular Pathology	1. Tumors 2. Inflammations	04
		Ocular pharmacology	1. Ocular Therapeutics	03
2.	Optics and refraction (10)	Principles of optical physics	1. Concave lenses/ mirrors 2. Convex lenses/ mirrors 3. Cylindrical lenses / mirrors 4. Prism	04
		Principles of refraction	1. Laws of refraction and reflection 2. Refractive errors	03
		Principles of ophthalmic instruments	1. Retinoscope 2. Direct Ophthalmoscope 3. Indirect Ophthalmoscope 4. Slit lamp microscope	03
3.	Clinical Ophthalmology (67)	Vitreo-retina	1. Retinal vascular disorder 2. Acquired macular disorder 3. Hereditary fundai dystrophy 4. Retinal detachment 5. Retinal Tumor	10
		Glaucoma	1. Open angle glaucoma 2. Close angle glaucoma 3. Congenital glaucoma 4. Investigations	09

		Lens	1. Cataract 2. Ectopia lentis	08
		Cornea	1. Cornea ulcers 2. Corneal dystrophy and degenerations 3. Ectasia 4. corneal and refractive surgery 5. Investigations	08
		Uveal tract	1. Uveitis 2. Uveitis in systemic diseases 3. Uveal tumors	06
		Neuro-ophthalmology	1. Cranial nerve palsies 2. Optic neuritis 3. Papilledema 4. Tumors 5. Neuroimaging	06
		Eye lid	1. Tumors 2. Entropion and ectropion 3. Ptosis 4. Benign lesions	04
		Conjunctiva	1. Conjunctivitis 2. Degenerations 3. Tumors	04
		Orbit	1. Orbital cellulitis 2. Orbital tumors 3. Thyroid eye disease 4. Proptosis	03
		Squint	1. Esotropia 2. Exotropia 3. Investigations 4. Clinical examination	03
		Lacrimal apparatus	1. Dacryocystitis 2. NLD blockage	02
		Sclera	1. Scleritis	01
		Ocular Trauma	1. Chemical / thermal injuries 2. Blunt and Penetrating trauma	03

Subject Experts Contributed for the development of Table of Specifications for Pathology

Prof. Dr. Sidrah Saleem

Prof of Microbiology
University of Health Sciences, Lahore

Prof. Dr. Ambareen Hamid

Professor of Pathology
King Edward Medical University, Lahore

Prof. Dr. Saima Farhan

Professor of Haematology
University of Child Health Sciences, Lahore

Prof. Dr. Rahma Dar

Professor of Pathology
Gujranwala Medical College, Gujranwala

Prof. Dr. Muhammad Asif Naveed

Prof of Haematology
University of Health Sciences, Lahore

Dr. Shahila Jaleel

Assoc Prof of Pathology
Sheikh Zayed Medical College, Lahore

Dr. Farwa Batool Shamsi

Assoc Prof of Pathology
Faisalabad Medical University, Faisalabad

Dr. Summayya Sikandar

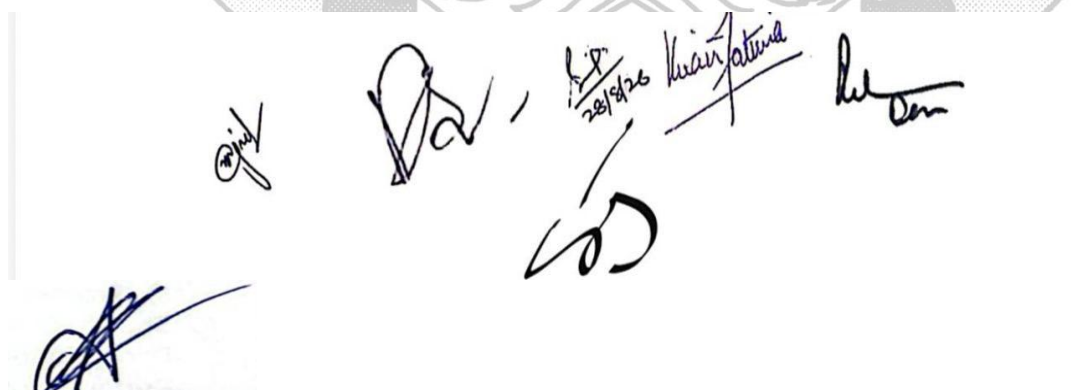
Assoc Prof of Pathology
Fatima Jinnah Medical University, Lahore

Dr. Muhammad Sami Ullah

Assoc Prof of Pathology
Nishtar Medical University, Multan

Dr. Kiran Fatima

Assoc Prof of Pathology
Rawalpindi Medical University, Rawalpindi



Postgraduate Entrance Test (PGET)
Paper-II (Pathology)
Table of Specification

1. HISTOPATHOLOGY (23 MCQs)

Sr.	Major Topic	Scope (Subtopics)	MCQs
1	Gastrointestinal & Hepatobiliary Pathology	Congenital and inflammatory disorders of GIT; peptic ulcer disease; inflammatory bowel disease; intestinal obstruction; benign and malignant tumors of GIT; liver diseases including hepatitis, cirrhosis and hepatic neoplasms; gallbladder diseases including cholecystitis and carcinoma; pancreatic inflammatory disorders and neoplasms.	06 (Not more than one Mcq from each subtopic)
2	Cardiovascular, Respiratory, Lymph Node & Renal Pathology	Ischemic heart disease; valvular heart disease; cardiomyopathies; vasculitis; pneumonia; tuberculosis; COPD; interstitial lung disease; lung tumors; glomerular diseases; nephrotic and nephritic syndromes; acute and chronic kidney injury; urothelial tumors, glomerulonephritis; renal tumors, reactive lymphadenitis; granulomatous lymphadenitis (including tuberculosis); infectious lymphadenopathies; lymphomas (Hodgkin and Non-Hodgkin); plasma cell neoplasms; metastatic tumors involving lymph nodes	06 (Not more than one Mcq from each subtopic)
3	Endocrine, Breast & Female Genital Tract Pathology	Thyroid inflammatory and neoplastic disorders; parathyroid disorders; Hyperparathyroidism adrenal cortical and medullary disorders; pituitary lesions; Pituitary Adenoma Benign and malignant breast disease; cervical intraepithelial lesions and carcinoma; endometrial disorders; uterine tumors; ovarian cysts and neoplasms; gestational trophoblastic disease. Hydatidiform mole	06 (Not more than one Mcq from each subtopic)
4	Male Genital, Musculoskeletal, Skin & CNS Pathology	Prostatic hyperplasia and carcinoma; Gleason Grading Inflammatory and neoplastic disorders of testis, Penile inflammatory and neoplastic lesions; Metabolic and inflammatory bone diseases (Osteoporosis, Osteomyelitis) Primary bone and soft tissue tumors Inflammatory and neoplastic skin disorders (Bullous disease, Basal cell carcinoma, Squamous Cell Carcinoma, Malignant Melanoma) Cerebrovascular disease; CNS infections Brain abscess, Prion disease, Meningitis, CSF report interpretation Brain tumors Degenerative neurological disorders (Alzheimer's disease, Parkinson's disease, Multiple Sclerosis)	05
TOTAL			23

2. CHEMICAL PATHOLOGY (23 MCQs)

Sr. No.	Major Topic	Scope / Subtopics	MCQs
1	Carbohydrate, Lipid & Protein Disorders	Diabetes mellitus; diagnosis/classification of diabetes, OGTT, HbA1c, hypoglycaemia, Diabetic Ketoacidosis and Vascular complications, dyslipidaemias, Disorders of plasma proteins, nutritional/metabolic disorders	06
2	Renal & Liver Function / Organ Function Assessment	Renal function tests; eGFR; creatinine and urea; proteinuria; nephrotic/nephritic biochemical findings; LFTs, pancreatic enzymes; cardiac biomarkers and Interpretation of tests in common diseases.	07
3	Electrolytes, Acid-Base & Blood Gas Analysis	Sodium, Potassium, Calcium, Magnesium and Chloride disorders; Osmolality, Acid-base disturbances; metabolic/respiratory acidosis and alkalosis; anion gap; compensation; ABGs interpretation	05
4	Endocrine Disorders	Thyroid, Adrenal, Pituitary and Fertility hormones and related disorders, PTH-vitamin D axis; bone metabolism; endocrine dynamic function tests and Interpretation of hormone tests in common disorders.	05
TOTAL			23

3. MICROBIOLOGY (23 MCQs)

Sr.	Major Topic	Scope (Subtopics)	MCQs
1	Bacterial Diseases & Laboratory Diagnosis	Gram-positive and Gram-negative bacterial infections; mycobacterial infections; anaerobic infections; specimen processing; culture; staining; antimicrobial susceptibility testing.	10
2	Viral and Fungal Diseases	Common viral infections; hepatitis viruses; HIV; respiratory viruses; systemic and superficial fungal infections; protozoal and helminthic diseases; laboratory diagnosis.	06 (04 MCQs from Virology + 02 MCQs from Fungal)
3	Parasitic Diseases	Protozoal and helminthic diseases; laboratory diagnosis.	03
4	Clinical Immunology & Infection Control	Host immune response to infection; vaccines; hospital-acquired infections; sterilization; disinfection; antimicrobial stewardship.	04
TOTAL			23

4. HAEMATOLOGY (23 MCQs)

Sr.	Major Topic	Scope (Subtopics)	MCQs
1	Red Cell Disorders	Disorders of erythropoiesis; iron deficiency anaemia; megaloblastic anaemia; haemolytic anaemias; haemoglobinopathies including thalassaemia and sickle cell disease; aplastic anaemia; polycythaemia; interpretation of CBC, red-cell indices, reticulocyte count and peripheral blood film.	08
2	White Cell Disorders	Reactive leucocyte disorders; acute and chronic leukaemias; myeloproliferative neoplasms; myelodysplastic syndromes;	08

Sr.	Major Topic	Scope (Subtopics)	MCQs
		lymphomas; plasma-cell neoplasms; interpretation of differential counts, peripheral smear and basic bone marrow findings.	
3	Platelet & Haemostatic Disorders	Thrombocytopenia; thrombocytosis; qualitative platelet disorders; haemophilia; von Willebrand disease; disseminated intravascular coagulation; thrombotic disorders; interpretation of coagulation tests.	07
	TOTAL		23

5. IMMUNOPATHOLOGY (8 MCQs)

Sr.	Major Topic	Scope (Subtopics)	MCQs
1	Hypersensitivity & Autoimmune Disorders	Mechanism of Type I-IV hypersensitivity reactions, mechanisms of immune-mediated tissue injury; organ-specific and systemic autoimmune diseases; SLE; rheumatoid arthritis; autoimmune thyroid disease; autoimmune mechanisms and laboratory correlation.	2
2	Immunodeficiency & Transplantation	Primary and secondary immunodeficiency disorders, HIV-related immune dysfunction, Principles of transplantation; HLA compatibility, Transplant rejection; graft-versus-host disease.	2
3	Tumour & Clinical Immunology	Tumour antigens; immune surveillance; tumour immune escape, Mechanisms of tumour-associated immune responses, Principles of cancer immunotherapy	2
4	Diagnostic Immunology	Antigen-antibody reactions and ELISA	2
	TOTAL		8

Subject Experts Contributed for the development of Table of Specifications for Radiology

Prof. Dr. Saima Ameer

Prof of Radiology
Narowal Medical College, Narowal

Prof. Basma Khan

Former Prof. of Radiology
Services Institute of Medical Sciences, Lahore

Dr. Nosheen Siddique

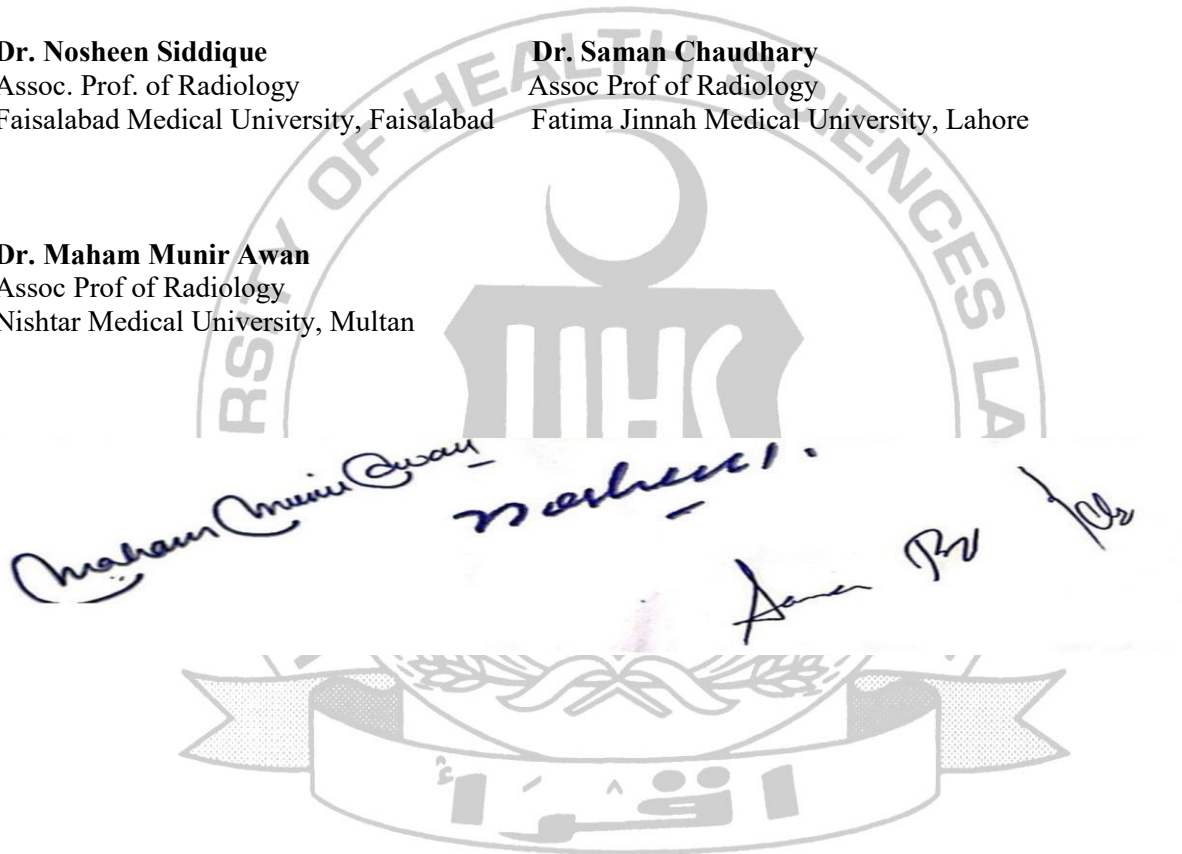
Assoc. Prof. of Radiology
Faisalabad Medical University, Faisalabad

Dr. Saman Chaudhary

Assoc Prof of Radiology
Fatima Jinnah Medical University, Lahore

Dr. Maham Munir Awan

Assoc Prof of Radiology
Nishtar Medical University, Multan



PGET Paper II (Radiology)**Table of Specification**

The curriculum for PGET Paper-II shall comprise the contents of the MBBS curriculum, with emphasis on their clinical application and competencies acquired during the house job.

- Up to 10 image-based questions may be included, pertaining to the interpretation of chest and limb X-rays and CT scans of the brain

Sr. No#	Subject	Topic	Subtopics	Total no. of MCQ (For Topic)
1	Anatomy, Radiological and Applied Anatomy (90 MCQs)	Thorax	Anatomical and applied anatomical features of structures/organs in Thorax Identify normal chest anatomy and standard projections on plain X-Ray. Identify various anatomical landmarks on chest X-Rays. Identify radiological features of: Tumors Trauma Infections Inflammation Metabolic Congenital	30 MCQs
		Limbs	Anatomical and applied anatomical features of structures/organs related to limbs Identify normal limb anatomy and standard projections on plain X-Ray. Identify various anatomical landmarks on limb X-Rays. Identify radiological features of: Tumors Trauma Infections Inflammation Metabolic Congenital	25 MCQs
		Head, Neck & Spine	Anatomical and applied anatomical features of Head, Neck & Spine Identify normal skull & spine anatomy and standard projections on plain X-Ray. Identify various anatomical landmarks on Head, Neck & spine X-Rays. Identify radiological features of: Tumors Trauma Infections Inflammation Metabolic Congenital	12 MCQs

		Abdomen	Anatomical and applied anatomical features of structures/organs in Abdomen Identify normal abdominal anatomy and standard projections on plain X-Ray. Identify various anatomical landmarks on abdominal X-Rays. Identify radiological features of: Tumors Trauma Infections Inflammation Metabolic Congenital	18 MCQs
		Contrast Studies & Nuclear Scans	Identify normal anatomy on barium meal and double-contrast studies. Interpret radiological features of gastric outlet obstruction, filling defects, stomach masses and esophageal strictures. Identify intussusception, colonic defects, strictures, ulcerative colitis, and ulcers. Identify hydronephrosis and renal masses on Intravenous Urogram (IVU).	05 MCQs
2	Miscellaneous (10 MCQs)	Radiology Modalities	Explain the principles, applications, and limitations of common radiological imaging techniques: Xrays, ultrasound, CT scans, MRI, PET scans, and mammography. (3)	04 MCQs
		Radiation Protection	Pregnancy and radiation protection Explain basic principles of ionizing and non-ionizing radiation. Describe radiation protection measures and legal/ethical considerations in medical imaging. Identify common hazards of imaging and strategies to minimize patient and staff exposure. Recognize the consequences of inappropriate or wasteful imaging.	04 MCQs
		Pharmacology related to Radiology	Contrast Reaction Types and Management	02 MCQs
			TOTAL	100

Reference Books:

Related Books of MBBS Curriculum.

Subject Experts Contributed for the development of Table of Specifications for Psychiatry

Prof. Dr. Niaz Maqsood

Prof of Psychiatry
Quaid -e-Azam Medical College, Bahawalpur

Prof. Dr. Ali Madeeh Hashmi

Prof of Psychiatry
King Edward Medical University, Lahore

Dr. Irum Aamer

Assoc. Prof of Psychiatry
Fatima Jinnah Medical University, Lahore

Dr. Muhammad Azeem Khan

Assoc. Prof of Psychiatry
Rawalpindi Medical University, Rawalpindi

Dr. Tooba Obeer

Assist Prof of Psychiatry
Faisalabad Medical University, Faisalabad

Tooba

Irum

Dr. Irum Aamer

Azeem

for Kiwan farooq

Dr. M Azeem Rao
THE REAL HEALTH
Dr. Muhammad Azeem Rao
Associate Prof. Psychiatry
Public Health Expert BBH, RMU

PGET PAPER II (Psychiatry)**Table of Specification**

- TOS of PGET Paper II includes contents of MBBS Psychiatry syllabus and its clinical application covered till completion of house job.

No	Subject(s)	Topic(s)	Subtopic(s)	No. of MCQs
1	Neurology (15)	Delirium and its management (3 MCQs)	- Causes - Signs & symptoms - Management	At least 01 MCQ from each subtopic
		Dementia and Amnesic syndrome (4 MCQs)	- Types and classification - Alzheimer's disease- pathophysiology, etiology, symptomology - Vascular dementia- Pathophysiology, etiology, Symptomatology	At least 01 MCQ from each subtopic
		Epilepsy (2 MCQs)	- Classification/symptomatology - Management	01 each
		Headache (2 MCQs)	- Types and symptomatology - General Management	01 each
		Stroke (2 MCQs)	- Types and symptomatology - Diagnosis & management	01 each
		Other Neurological Disorders (2 MCQs)	- Parkinsonism- Pathophysiology, etiology, Symptomatology - Motor Neuron Diseases- Pathophysiology, etiology, Symptomatology - Multiple Sclerosis- Pathophysiology, etiology, Symptomatology - Wilson's Disease/Huntington's Disease- Pathophysiology, etiology, Symptomatology	02 MCQs from any two subtopics
2	Psychiatry (55)	Phenomenology and Assessment of Psychiatric illnesses (10 MCQs)	- Hallucination, following types excluding subtypes and differentials (visual, auditory, gustatory, olfactory, proprioceptive, sensory) - Delusions (definition, types) - Obsessions & compulsions - Disturbances of emotion and Mood - Risk assessment	Two MCQs from each subtopic
		Psychotic Disorders (6 MCQs)	Signs and symptoms of psychosis	03 MCQs from

			Schizophrenia (Symptomology and basic management of schizophrenia)	each subtopic
		Mood Disorders (6 MCQs)	Symptomatology and basic management of the following: - Bipolar affective disorder (mania, depression) - Major depressive disorder	03 MCQs from each subtopic
		Anxiety Disorders (8 MCQs)	Symptoms and basic management of the following: - Generalized anxiety disorder - Phobic anxiety disorder (general) - Panic disorder - Obsessive Compulsive Disorder (OCD)	02 MCQs from each subtopic
		Substance Abuse Disorders (5 MCQs)	- Nicotine - Alcohol misuse and dependence - Cannabinoids - Opioids - Stimulants (methamphetamines/Cocaine)	01 MCQ from each subtopic
		Neurobiological Basis of Psychiatric Illnesses (4 MCQs)	- Functional Neuroanatomy (lobe functions) - Neurotransmitter	02 MCQs from each subtopic
		Psychopharmacology (6 MCQs)	- Classification of psychotropic drugs - Mechanism of psychotropics - Extrapyramidal side effects - Serotonin syndrome - Neuroleptic malignant syndrome	01 MCQ 02 MCQs 01 MCQ 01 MCQ 01 MCQ
		Suicide and Deliberate Self Harm (4 MCQs)	- Suicide - Deliberate self-harm	02 MCQs from each subtopic
		Somatoform Disorders (6 MCQs)	Symptomatology of the following: - Dissociative disorders - Somatisation disorder - Somatoform pain disorders	02 MCQs from each subtopic

3.	Neurosurgery (3)	Brain Injury (2 MCQs)	- Psychological consequences of Brain Injury - Symptomatology of head injury- closed and open - Basic Management	02 MCQs from subtopics
		Brain Tumors (1 MCQs)	- Symptomatology - Investigation - Psychological consequences of Brain Tumors	01 MCQ from subtopics
4.	Medicine (14)	Psycho-Endocrinology (6 MCQs)	To understand dysfunction of: - Thyroid - Adrenal disorders - Parathyroid disorders - Diabetes mellitus - Hypothalamic-pituitary-adrenal axis - Metabolic syndromes	01 MCQ from each subtopic
		Eating Disorders (2 MCQs)	Signs symptoms of the following: - Anorexia nervosa - Bulimia nervosa	01 MCQ from each subtopic
		Cardiopulmonary (2 MCQs)	Major presenting problems of cardiopulmonary diseases like asthma, MI, pulmonary tuberculosis, angina correlating with psychiatry	Only 02 MCQs from subtopics
		Psychiatric Disorders related to reproductive health (4 MCQs)	- Post-partum psychosis - Post partum depression - Post-partum blues - PCOS & PMS	01 MCQ from each subtopic
5	Child Psychiatry (3)	Intellectual Disorders and Child Psychiatry (mental retardation) (3 MCQs)	- Intellectual disabilities - ADHD - Cerebral palsy	01 MCQ from each subtopic
6	Behavioral Sciences and Psychology (10)	Coping skills (8 MCQs)	- Time Management - Conflict Resolution - Sleep Hygiene - Stress Management	02 MCQs from each subtopic
		Non-Pharmacological Interventions in Clinical Practice (2 MCQs)	- Communication Skills & informational care - Counselling and Breaking Bad News	01 MCQ from each subtopic

Recommended Books:

- Latest edition of Davidsons's Principles and Practice of Medicine
- Latest Edition of Shorter Oxford Textbook of Psychiatry (Chapter 1 & 3)

Subject Experts Contributed for the development of Table of Specifications for Surgery & Allied Group 1

Prof. Dr. Waris Farooka

Principal and Prof of Surgery
Sargodha Medical College, Sargodha

Prof. Gulam Mujtaba Zafar

Prof of Peads Urology
University of Child Health Sciences, Lahore

Prof. Dr. Muhammad Aslam Khan

Prof. of Peads Plastic Surgery
University of Child Health Sciences, Lahore

Dr. Imran Haider

Assoc. Prof. of Urology
Nishtar Medical University, Multan

Dr. Mudassir Fiaz

Assoc. Prof. of Peads Surgery
Rawalpindi Medical University, Rawalpindi

Dr. Zeeshan Qadir

Assoc. Prof. of Urology
Rawalpindi Medical University, Rawalpindi

Dr. Saadia Nosheen

Assoc. Prof. of Plastic Surgery
Faisalabad Medical University, Faisalabad

Dr. Ikram ul Haq

Assoc. Prof. of Paeds Surgery
Faisalabad Medical University, Faisalabad

Prof. Dr. Farooq Ahmad Rana

Prof of Surgery
Allama Iqbal Medical College, Lahore

Prof. Fatima Numeri

Prof of Peads Surgery
University of Child Health Sciences, Lahore

Prof. Dr. Ijaz Hussain Shah

Prof. of Plastic Surgery
Nishtar Medical University, Multan

Prof. Dr. Imran Amin

Prof Of Surgery
Gujranwala Medical; College, Gujranwala

Dr. Ahmad Naeem Akhtar

Assoc Prof of Surgery
Narowal Medical College, Narowal

Dr. Hussain Khan

Assoc. Prof. of Plastic Surgery
Rawalpindi Medical University, Rawalpindi

Dr. Irfan Munir

Assoc. Prof. of Urology
Faisalabad Medical University, Faisalabad

[Handwritten signatures and names of the subject experts, including Prof. Dr. Waris Farooka, Prof. Gulam Mujtaba Zafar, Prof. Dr. Muhammad Aslam Khan, Dr. Imran Haider, Dr. Mudassir Fiaz, Dr. Zeeshan Qadir, Dr. Saadia Nosheen, Dr. Ikram ul Haq, Prof. Dr. Farooq Ahmad Rana, Prof. Fatima Numeri, Prof. Dr. Ijaz Hussain Shah, Prof. Dr. Imran Amin, Dr. Ahmad Naeem Akhtar, Dr. Hussain Khan, and Dr. Irfan Munir.]

TABLE OF SPECIFICATION FOR PGET PAPER II (GROUP-1)**PREAMBLE**

- PGET for Surgery and Allied include General Surgery, Urology, Plastic Surgery and Pediatric Surgery

No.	Subject(s)	Topic	Subtopics	No. of MCQs
1	General Surgery (55 Single best MCQ as per UHS Guidelines)	Basic principles of surgery Investigations and diagnosis of surgical pathologies Perioperative care of surgical patients	1. Metabolic response to injury 2. Shock and blood transfusion 3. Wound healing and tissue repair 4. Surgical infection 5. Topical infection and infestation 6. Basic surgical skills and anastomosis 7. Principles of laparoscopic and robotic surgery 8. Surgical audit and research 9. Surgical ethics and law 10. Human factors, patient safety and quality improvement 11. Principles of oncology 12. Diagnostic imaging 13. Gastrointestinal surgery 14. Tissue and molecular diagnosis 15. Perioperative care including fluid electrolyte balance and critical care 16. Anesthesia and pain relief 17. Nutrition and fluid therapy 18. Postoperative care and perioperative optimization 19. Day-case surgery	16 MCQs (One MCQ should be taken from one subtopic) (One MCQ should be essentially taken each from shock, hemorrhage and blood transfusion and fluid electrolytes and ethics)
		Trauma	1. Initial assessment and management of trauma 2. Torso/Abdomen trauma 3. Chest Trauma 4. Neck and Spine 5. Maxillofacial trauma 6. Disaster and conflict surgery	12 MCQs (02 MCQs from each subtopic)
		Abdomen and Abdominal wall	1. Abdominal wall, Hernia and umbilicus 2. Peritoneum, omentum, mesentery and retroperitoneal space 3. Esophagus 4. Stomach and duodenum 5. Liver 6. Spleen 7. Gall bladder and Bile duct 8. Pancreas 9. Small intestine 10. Large intestine 11. Appendix 12. Rectum 13. Pelvic, PID, Ectopic Pregnancy 14. Anus and Anal canal 15. Inguinoscrotal pathologies	16 MCQs (Two MCQs from Abdominal wall and Hernias and one MCQ from each of the subtopic)

		Breast and endocrine	1. Thyroid gland 2. Parathyroid gland 3. Adrenal and other endocrine disorders 4. Breast (Triple assessment, staging and investigation)	06 MCQs (two MCQs from breast and thyroid and one each from other subtopics)
		Head and neck	1. Oral cavity malignancy 2. Disorders of salivary glands	02 MCQs 01 from salivary gland and 01 from oral cavity
		Vascular pathologies	1. Arterial disorders 2. Venous disorders 3. Lymphatic disorders	03 MCQs (01 MCQ each from three subtopics)
2	Genito-urinary 15 (Single best MCQ as per UHS Guidelines)	Kidney and ureter Urinary bladder	1. Appropriate tests for urinary tract pathology 2. Classification, definition pathogenesis and management of UTI 3. Pathophysiology and management of renal and ureteric disease 4. Presentation and management of renal neoplasm 5. Principles and management of acute and chronic retention of urine 6. Indication and technique of urethral and suprapubic catheterization 7. Causes, investigation and principles of management of bladder stones 8. Causes, investigation and principles of hematuria 9. Causes, investigations and basic principles of management of Bladder Tumors	10 MCQs (02 MCQs each from subtopic 1, 5 & 6 and four other MCQs from rest of the subtopics)
		Prostate and seminal vesicles	1. Terminology used to describe urinary tract symptoms and their causes as well as treatment options available 2. Investigations appropriate for benign conditions of prostate	02 MCQs (One MCQ from each of the subtopics)
		Testes, scrotum and urethra	1. Diagnosis and treatment of urethral stricture 2. Testicular mal descent / undescended testes 3. Testicular torsion 4. Common scrotal swellings (varicocele, hydrocele and epididymis cyst) 5. Testicular tumors 6. Testicular and scrotal infections	03 MCQs (One MCQ essentially from subtopic 3 and rest of the 02 MCQs from other subtopics)
3	Skin, plastic and reconstructive surgery 15 (Single best MCQ as per UHS Guidelines)	Skin and subcutaneous	1. Cutaneous manifestation of generalized disease as related to surgery 2. Benign skin tumors 3. Malignant skin tumors	03 MCQs (01 MCQ from each of the subtopics)
		Burn	1. Area and depth of burns in adults and children 2. Requirement for transfer to a specialist burn unit	08 MCQs (one MCQ essentially from subtopic 1 & 2)

			- Pathophysiology of burn injury and systemic effect - Methods for calculating the fluids required - Principle techniques for treating burn and patient - Pathophysiology of electrical and chemical burn	and rest of the MCQs from other subtopics)
		Plastic & Reconstructive surgery	- Skin grafts - Flaps	04 MCQs (02 MCQs from each of the subtopics)
4	Paediatric Surgery 15 (Single best MCQ as per UHS Guidelines)	Pediatric surgery	- Perioperative fluids in children - Inguinal hernias and hydrocele - Causes and management of acute scrotum - Presentation and resuscitation of pyloric stenosis - Intestinal obstruction (intussusception, imperforate anus, mal rotation, necrotizing enterocolitis) - Causes and management of abdominal pain in children of different ages	07 MCQs (Atleast 2 MCQs from subtopic 2 and one MCQ from each of the other subtopic)
		Neonatal surgery	- Neonatal physiology and anatomy influence surgical care - congenital anomalies managed by neonatal surgeons (congenital atresia/tracheoesophageal fistula, duodenal atresia, anorectal malformations, Hirschsprung disease, exomphalos major and minor, congenital diaphragmatic hernia, gastroschisis) 2 new born tumors	06 MCQs (atleast 04 MCQs from subtopic 2 and one each from subtopic 1 & 3)
		Pediatric urology	- Circumcision in childhood and list the complications - Three levels of urinary tract obstruction and outline management - The anomalies of hypospadias and epispadias	02 MCQs (one MCQ from subtopic 1 and next one from subtopic 2 or 3)
Total	100 MCQs			100 MCQs

Recommended book:
Short Practice of Surgery by Bailey and love (Latest edition)

Subject Experts Contributed for the development of Table of Specifications for **Surgery & Allied Group 2**

Prof. Dr. Waris Farooka

Principal and Prof of Surgery
Sargodha Medical College, Sargodha

Dr. Nazar Hussain

Prof. of Neurosurgery
Faisalabad Medical University, Faisalabad

Dr. Imran Haider

Assoc. Prof. of Urology
Nishtar Medical University, Multan

Prof. Dr. Imran Amin

Prof Of Surgery
Gujranwala Medical; College, Gujranwala

Dr. Malik Liaquat

Assoc. Prof of Neurosurgery
Nishtar Medical University, Multan

Dr. Obaid Ur Rehman

Assoc. Prof. of Orthopedic
Rawalpindi Medical University, Rawalpindi

Dr. Laeeq Ur Rehman

Assoc Prof of Paeds Neurosurgery
University of Child Health Sciences, Lahore

Prof. Dr. Farooq Ahmad Rana

Prof of Surgery
Allama Iqbal Medical College, Lahore

Dr. Rana Dawood Ahmad

Prof. of Orthopedic Surgery
Faisalabad Medical University, Faisalabad

Prof. Dr. Kaleem Ullah

Prof. of Thoracic Surgery
Nishtar Medical University, Multan

Dr. Ahmad Naeem Akhtar

Assoc Prof of Surgery
Narowal Medical College, Narowal

Dr. Ghulam Qadir

Assoc. Prof of Orthopedic Surgery
Nishtar Medical University, Multan

Dr. Sundas Ali

Assoc. Prof. of Neuro Surgery
Rawalpindi Medical University, Rawalpindi

Dr. Abdul Latif Shahid

Assoc Prof of Paeds Orthopedic Surgery
University of Child Health Sciences, Lahore

TABLE OF SPECIFICATION FOR PGET PAPER II (GROUP-2) PREAMBLE

- PGET for General Surgery, Orthopedics, Cardiac Surgery, Thoracic Surgery and Neurosurgery.

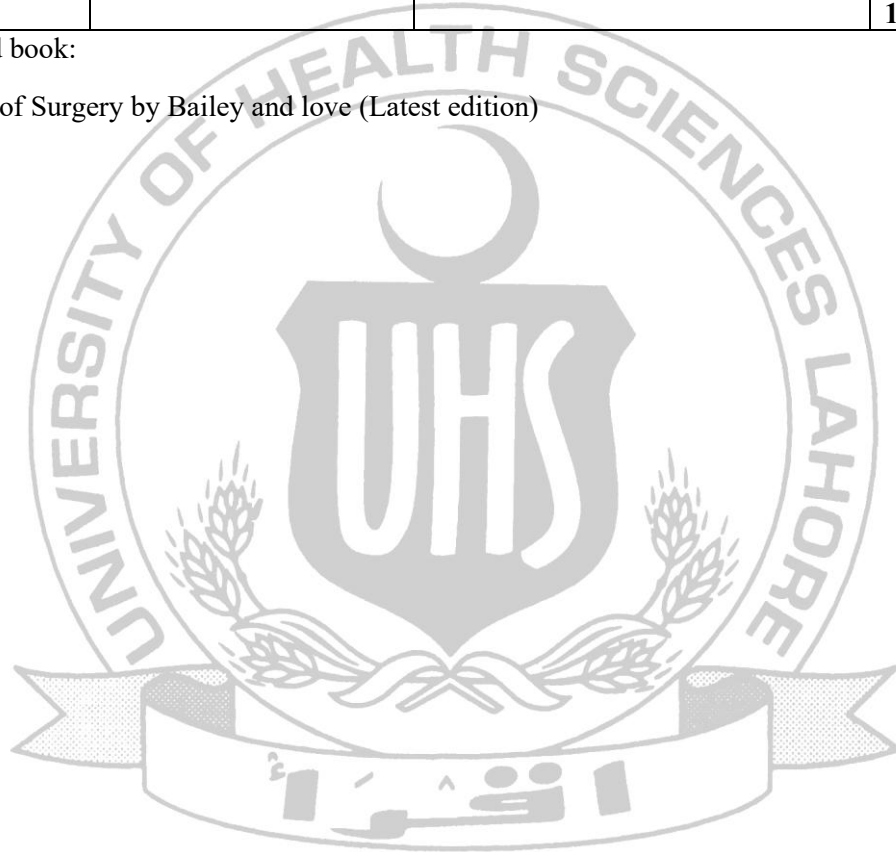
No.	Subject(s)	Topic	Subtopics	No. of MCQs
1	General Surgery (55 Single best MCQ as per UHS Guidelines)	Basic principles of surgery Investigations and diagnosis of surgical pathologies Perioperative care of surgical patients	1. Metabolic response to injury 2. Shock and blood transfusion 3. Wound healing and tissue repair 4. Surgical infection 5. Topical infection and infestation 6. Basic surgical skills and anastomosis 7. Principles of laparoscopic and robotic surgery 8. Surgical audit and research 9. Surgical ethics and law 10. Human factors, patient safety and quality improvement 11. Principles of oncology 12. Diagnostic imaging 13. Gastrointestinal surgery 14. Tissue and molecular diagnosis 15. Perioperative care including fluid electrolyte balance and critical care 16. Anesthesia and pain relief 17. Nutrition and fluid therapy 18. Postoperative care and perioperative optimization 19. Day-case surgery	16 MCQs (One MCQ should be taken from one subtopic) (One MCQ should be essentially taken each from shock, hemorrhage and blood transfusion and fluid electrolytes and ethics)
		Trauma	1. Initial assessment and management of trauma 2. Torso/Abdomen trauma 3. Chest Trauma 4. Neck and Spine 5. Maxillofacial trauma 6. Disaster and conflict surgery	12 MCQs (02 MCQs from each subtopic)
		Abdomen and Abdominal wall	1. Abdominal wall, Hernia and umbilicus 2. Peritoneum, omentum, mesentery and retroperitoneal space 3. Esophagus 4. Stomach and duodenum 5. Liver 6. Spleen 7. Gall bladder and Bile duct 8. Pancreas 9. Small intestine 10. Large intestine 11. Appendix	16 MCQs (Two MCQs from Abdominal wall and Hernias and one MCQ from each of the subtopic)

			12. Rectum 13. Pelvic, PID, Ectopic Pregnancy 14. Anus and Anal canal 15. Inguinoscrotal pathologies	
		Breast and endocrine	1. Thyroid gland 2. Parathyroid gland 3. Adrenal and other endocrine disorders 4. Breast (Triple assessment, staging and investigation)	06 MCQs (two MCQs from breast and thyroid and one each from other subtopics)
		Head and neck	1. Oral cavity malignancy 2. Disorders of salivary glands	02 MCQs 01 from salivary gland and 01 from oral cavity
		Vascular pathologies	1. Arterial disorders 2. Venous disorders 3. Lymphatic disorders	03 MCQs (01 MCQ each from three subtopics)
2	Orthopaedics 15 (Single best MCQ as per UHS Guidelines)	Elective orthopedics	Infective conditions in bones and joints	03 MCQs
			Musculoskeletal tumors	02 MCQs
			Congenital and developmental disorders (Club foot and DDH)	02 MCQs
		Trauma	Extremity (Upper & Lower limb) and pelvic trauma	08 MCQs (3 MCQs each from upper and lower limb trauma and rest from the pelvic trauma)
3.	Cardio-thoracic Surgery 15 (Single best MCQ as per UHS Guidelines)	Cardiac surgery	Investigation and preoperative assessment in planning cardiac surgery	01 MCQ
			Principles of Cardiopulmonary bypass	01 MCQ
			Incision, conduits and valve options in cardiac surgery	01 MCQ
			Principles of cardiopulmonary resuscitation after cardiac surgery	01 MCQ
			The role of surgery in congenital heart diseases.	01 MCQ
		Thoracic surgery	Mediastinal, pleural and lung diseases	06 MCQs (2 from each of the subtopics)
			Chest wall disorders (pectus excavatum pectus carinatum and infective chest wall diseases)	02 MCQs
4.	Neurosurgery 15 (Single best MCQ as per UHS Guidelines)	Raised intracranial pressure	1- Raised intracranial pressure 2- Cerebrospinal fluid circulation and Intracranial blood flow 3- Traumatic brain injury 4- Hydrocephalus	05 MCQs (one MCQ each from each subtopics)
		Intracranial Infection	Managing Intracranial infections (Meningitis and surgical site infections)	02 MCQs (One MCQ from each subtopic)

		Intracranial bleed and tumors	Initial management of various intracranial bleed, stroke (Ischemic/Hemorrhagic) and tumors/Space Occupying Lesions	03 MCQs (One MCQ from each of the subtopic)
		Spine and peripheral nerves	1- Trauma to spine and peripheral nerves 2- Spinal dysraphism	05 MCQs (03 MCQs from spine and one MCQ each from peripheral nerves and spinal dysraphism)
	Total			100 MCQs

Recommended book:

Short Practice of Surgery by Bailey and love (Latest edition)



Subject Experts Contributed for the development of Table of Specifications for Paediatric Medicine

Prof. Dr. M. Yaqoob Qazi

Prof of Pediatrics
Former Dean, Institute of Public Health

Prof. Dr. Aamer Naseer Qureshi

Prof of Pediatrics
King Edward Medical University, Lahore

Prof. Dr. Aga Shabbir Ali

Prof of Pediatrics
Akhtar Saeed Medical and Dental College

Prof. Dr. Tayyaba Khawar Butt

Prof of Pediatrics
Former Professor, SIMS, Lahore

Prof. Dr. Farah Naz

Prof of Pediatrics
University of Child Health Sciences, Lahore

Prof. Dr. Faheem Afzal

Prof of Pediatrics
Former Professor, SIMS, Lahore

Prof. Dr. Syed M. Javed Iqbal

Prof of Pediatrics
University of Child Health Sciences, Lahore

Prof. Dr. Muhammad Shahid

Prof of Pediatrics
Postgraduate Medical Institute, Lahore

Prof. Dr. Sadia Zafar

Prof of Pediatrics
Faisalabad Medical University, Faisalabad

Dr. Aqeela Ayub

Assoc Prof of Pediatrics
Rawalpindi Medical University, Rawalpindi

Dr. Asma Anwar

Assoc Prof of Pediatrics
Fatima Jinnah Medical University, Lahore

Dr. Afsheen Asghar

Assoc Prof of Pediatrics
Nishtar Medical University, Multan

Dr. Wajiha Rizwan

Assoc Prof of Pediatrics
University of Child Health Sciences, Lahore

Table of Specification for PGET Paper II (Paediatrics)

Preamble

- TOS of PGET Paper II includes contents of MBBS Paediatric Medicine (UHS MBBS Year-05) along with its clinical application covered till completion of house job.

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
1	Fundamentals of Paediatrics, Nutrition and Nutritional Disorders	Growth	• Anthropometric measurements • Growth charts and percentiles • Red flags of abnormal growth • Factors influencing growth • Tanner staging of male and female puberty	08 MCQs
		Development	• Developmental milestones: gross motor, fine motor, vision, hearing/speech and social behavior (neonate to 5 years) • Developmental delay and abnormalities • Factors affecting development • Caregiver counseling for age-appropriate cognitive, motor, language and social development	
		Immunization	• Active and passive immunity • Herd immunity • Non-EPI vaccines • Vaccine types: live attenuated, killed/inactivated, toxoid and conjugate • EPI schedule and target diseases • Indications, contraindications, adverse effects and precautions • Vaccine storage, handling and administration • Caregiver counseling, vaccine safety and minor post-vaccination reactions	
		Breastfeeding and Weaning	• Benefits of breastfeeding • Indications, contraindications and techniques • Lactation failure • Complementary feeding/weaning: timing, methods and types • Age-appropriate weaning foods and feeding practices • Nutritional requirements and growth monitoring • Caregiver counseling and hygiene • Complications of improper breastfeeding/weaning and prevention	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Integrated Management of Childhood and Neonatal Illness (IMNCI)	• Definition, importance and components of IMNCI • IMNCI under 2 months: very severe disease, jaundice, diarrhea, HIV infection, feeding problems and low birth weight • IMNCI age 2 months–5 years: pneumonia, diarrhea, fever, ear problems, acute malnutrition, anemia and HIV infection	
		Obesity	• Definition and classification • Clinical features and complications • Investigations • BMI calculation and role • Management: dietary, pharmacological and prevention	
		Rickets	• Definition and classification • Etiology and pathogenesis • Clinical features and skeletal deformities • Laboratory and radiological investigations • Differential diagnosis of bone deformities and growth disturbances • Vitamin D/calcium and dietary management • Complications, prognosis and prevention	
		Marasmus / Severe Wasting	• Definition and differentiation from other malnutrition • Severe wasting and muscle loss • Anthropometric and laboratory assessment • Nutritional rehabilitation and supportive care • Complications, prognosis and follow-up	
		Kwashiorkor / Edematous Malnutrition	• Definition and differentiation from marasmus • Edema, hepatomegaly and skin changes • Laboratory investigations • Therapeutic feeding, micronutrients and monitoring • Complications, prognosis and follow-up	
2	Neurologic Disorders	Pyogenic Meningitis	• Age-specific etiology • Pathogenesis and routes of infection • Clinical features, red flags and differential diagnosis • CSF analysis; lumbar puncture indications/contraindications • Blood tests, cultures and neuroimaging • Antibiotics, supportive care, monitoring and prevention • Complications and prognosis	08 MCQs

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Tuberculous Meningitis	• Pathogenesis • Clinical features, warning signs and three clinical stages • Diagnostic criteria and investigations • Management • Complications and prognostic factors	
		Encephalitis	• Etiology • Pathogenesis and neurological consequences • Clinical features and laboratory diagnosis • Management • Complications and prognosis	
		Cerebral Malaria	• Etiology and pathogenesis • Clinical features • Diagnostic tests and diagnostic criteria • Management • Complications, prognosis and prevention	
		Febrile Seizures	• Definition and classification • Diagnostic criteria and exclusion conditions • Etiology and common triggers • Clinical features • Indications for investigations • Immediate seizure control and supportive care • Risk factors for recurrence, long-term outlook and prognosis	
		Epilepsy	• Etiology and risk factors • Classification of seizures: generalized, tonic-clonic, petit mal/absence, myoclonic and partial/focal • Clinical features and diagnostic approach • Acute seizure control and long-term management • Common antiepileptic drugs: indications and adverse effects	
		Status Epilepticus	• Types • Etiology and precipitating factors • Pathophysiology and neuronal injury • ABC stabilization and stepwise pharmacologic treatment • Post-ictal management • Prognostic factors	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Cerebral Palsy	• Definition • Prenatal, perinatal and postnatal causes/pathogenesis • Types and motor patterns • Clinical features • Differential diagnosis from progressive neuromuscular, metabolic and genetic disorders • Management • Prevention and prognosis	
		Hydrocephalus	• Etiology and pathogenesis • Types • Clinical features • Differential diagnosis • Diagnostic evaluation • Medical and surgical management and follow-up • Complications and prognosis	
		Brain Abscess	• Etiology, routes of infection and pathogenesis • Clinical features and diagnostic evaluation • Differential diagnosis • Antibiotics, surgical drainage and supportive care • Complications and prognosis	
		Microcephaly	• Etiology and pathogenesis • Clinical features • Differential diagnosis • Diagnostic evaluation • Management and prognosis	
		Coma in Children	• Common causes • Clinical evaluation • Laboratory and radiological investigations • Stabilization, treatment of cause and supportive care • Prognostic factors	
		Cerebellar Ataxia	• Cerebellar and non-cerebellar causes/pathogenesis • Clinical features • Differential diagnosis • Diagnostic evaluation • Management and prognosis	
3	Neuromuscular Disorders	Duchenne Muscular Dystrophy	• Pathogenesis • Clinical features and signs • Diagnostic tests and interpretation • Management	04 MCQs

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Myasthenia Gravis	• Pathophysiology • Clinical features • Diagnostic approach • Management • Prognosis and long-term outcomes	
		Floppy Infant	• Causes of hypotonia • Paralytic vs non-paralytic hypotonia • Clinical features • Diagnostic evaluation	
		Guillain-Barré Syndrome	• Etiology and pathophysiology • Clinical features and stages • Major variants • Differential diagnosis of acute flaccid paralysis • Diagnostic evaluation • Management and prognosis	
4	Cardiovascular Disorders	Cyanotic Congenital Heart Disease	• Classification by anatomical features • Tetralogy of Fallot (TOF): components, pathophysiology, clinical features, diagnosis, hypoxemic spells, management, complications and prognosis • Transposition of Great Arteries (TGA): pathophysiology/parallel circulation, shunt dependence, clinical features, diagnosis, management and prognosis	10 MCQS
		Acyanotic Congenital Heart Disease	• Ventricular Septal Defect (VSD): hemodynamics, clinical features, diagnosis and surgical indications • Patent Ductus Arteriosus (PDA): pathophysiology, clinical features, diagnosis, management, complications and prognosis • Atrial Septal Defect (ASD): types, hemodynamics, clinical features, diagnosis, device/surgical closure and outcomes	
		Congestive Cardiac Failure (CCF)	• Clinical diagnosis • Differential diagnosis • Common pediatric causes • Investigations • Medical and supportive management • Complications and poor prognostic indicators • Prevention and long-term follow-up	
		Rheumatic Fever (RF)	• Clinical features and major manifestations • Pathophysiology and immunological basis • Modified Jones criteria • Complications • Management and secondary prophylaxis • Prevention	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Infective Endocarditis (IE)	• Clinical presentation • Pathophysiology and risk factors • Modified Duke criteria • Blood cultures and echocardiography • Medical and surgical management • Complications and prevention	
		Myocarditis	• Clinical features • Causes • Investigations • Management • Complications and long-term follow-up	
		Supraventricular Tachycardia	• Clinical features • Causes and pathophysiology • Diagnostic approach and ECG interpretation • Recent advances • Pacemaker use and management	
5	Respiratory Disorders	Pneumonia	• Anatomical and etiological classification • IMNCI classification • Age-specific bacterial etiology • Clinical features • Investigations and management • Complications and their management • Prognosis and recovery factors	08 MCQs
		Asthma	• Triggers and risk factors • Pathophysiology • Clinical features • Diagnosis and differential diagnosis • Complications • Acute asthma management • Status asthmaticus • Long-term management • Prognosis and prevention	
		Croup	• Etiology • Pathophysiology • Clinical features and diagnosis • Investigations • Differential diagnosis • Management • Complications, warning signs and recurrence	
		Acute Epiglottitis	• Epidemiology and pathogenesis • Causative organisms • Clinical features • Investigations • Differential diagnosis of upper airway obstruction • Airway intervention, intensive monitoring and management • Complications	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Acute Pharyngitis and Tonsillitis	• Etiology • Viral vs bacterial clinical features • Investigations • Management • Complications of untreated streptococcal infection	
		Bronchiolitis	• Etiology and risk factors • Pathophysiology • Clinical features and severity indicators • Investigations • Management and hospitalization criteria • Complications	
		Pleural Effusion	• Classification and types • Causes • Respiratory pathophysiology • Radiological diagnosis • Medical and procedural management	
		Cystic Fibrosis	• Genetics, inheritance and pathophysiology • Clinical manifestations • Diagnostic criteria • Differential diagnosis • Multidisciplinary management • Complications • Long-term care, prognosis and prevention	
		Pneumothorax	• Classification • Causes of spontaneous pneumothorax • Pathophysiology • Clinical features • Chest X-ray findings • Definitive management • Complications and ICU/referral indicators	
6	Disorders of Endocrine System	Congenital Hypothyroidism / Cretinism	• Etiology • Early clinical features • TSH, T4 and thyroid imaging • Treatment and follow-up of growth/neurodevelopment/thyroid function • Early vs delayed treatment prognosis • Newborn screening	06 MCQs
		Juvenile / Acquired Hypothyroidism	• Etiology • Clinical and laboratory diagnosis • Management • Long-term prognosis and untreated complications	
		Hyperthyroidism	• Etiology • Clinical and investigation-based diagnosis • Management • Prognosis and follow-up	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Diabetes Mellitus	• Etiology and classification • Insulin deficiency/resistance pathophysiology • Clinical and laboratory diagnosis • Insulin replacement and diet • Insulin regimens/sliding scale and glucose-based adjustment • Growth and glycemic monitoring; caregiver education • Acute and chronic complications • Long-term outcomes	
		Diabetic Ketoacidosis (DKA)	• Precipitating factors • Clinical features • Laboratory investigations • Treatment • Complications	
		Short Stature	• Classification by cause • Clinical features • Investigations • Management and follow-up	
		Cushing Disease / Cushing Syndrome	• Etiology • Cortisol excess pathophysiology • Clinical features • Investigations • Etiology-specific management • Complications • Growth, puberty and recurrence follow-up	
		Congenital Adrenal Hyperplasia (CAH)	• Clinical features • Confirmatory investigations • Prenatal diagnosis: principles and indications • Management • Prognosis by subtype/severity/timing	
7	Gastrointestinal & Liver Disorders	Acute Diarrhea	• Definition • Causes/etiologies and common pathogens • Dehydration severity classification • Prevention and management	12 MCQs
		Chronic Diarrhea	• Definition • Causes/etiologies and pathogens • Dehydration assessment • Management	
		Celiac Disease	• Etiological/predisposing genetic and environmental factors • Clinical and diagnostic-test based diagnosis • Management • Long-term prognosis, complications and follow-up	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Inflammatory Bowel Disease (Crohn Disease and Ulcerative Colitis)	• Types and etiological factors • Clinical features of Crohn disease and ulcerative colitis • Investigations • Management • Long-term prognosis, monitoring and complications	
		Approach to Vomiting in Children	• Common etiologies • Red flags • Laboratory, imaging and targeted investigations • Systematic differential diagnosis • Management • Monitoring, complication prevention and follow-up	
		Approach to the Child with Hepatosplenomegaly	• Age-specific causes of hepatomegaly/splenomegaly/hepatosplenomegaly • Clinical features • Investigations • Differential diagnosis of hepatomegaly/visceromegaly • Management, follow-up and referral	
		Acute Hepatitis	• Etiology • Clinical features and laboratory interpretation • Differential diagnosis • Management and referral/hospitalization indications • Prognosis, complications, vaccination and hygiene	
		Hepatic Encephalopathy in Children	• Etiology • Clinical features • Laboratory and imaging investigations • Differential diagnosis of altered mental status • Management	
		Pediatric Constipation	• Etiology • Clinical features • Investigations • Differential diagnosis of chronic/severe constipation • Dietary, behavioral and pharmacological management • Prognosis, prevention and follow-up	
		Wilson Disease	• Etiology and genetic basis • Hepatic, neurological and psychiatric manifestations • Diagnostic investigations • Medical and surgical management • Prognosis and long-term follow-up	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
8	Hematologic Disorders	Anemia	• Definition and classification by morphology/etiology • Clinical features • Investigations	08 MCQs
		Congenital Hypoplastic Anemia	• Diamond–Blackfan anemia • Reduced red-cell production pathophysiology • Clinical features • Bone marrow and genetic evaluation • Management	
		Microcytic Anemias	• Iron Deficiency Anemia: etiology, pathophysiology, clinical features, diagnosis and management • Beta-Thalassemia: major/minor, pathophysiology, clinical features, diagnosis and management • Hereditary Spherocytosis: genetics, pathophysiology, clinical features, diagnosis and management • Sickle Cell Anemia: inheritance, pathophysiology/vaso-occlusion, clinical features, investigations and management	
		Megaloblastic Anemia	• Vitamin B12 vs folate deficiency • Impaired DNA synthesis and macrocytosis • Clinical features • Diagnostic evaluation and management	
		Aplastic Anemia	• Definition and classification • Clinical features • Diagnostic tests • Management	
		Enzymatic Defects (Red Cell Enzyme Deficiencies)	• Common enzymopathies causing hemolytic anemia • Pathophysiology of hemolysis • Clinical features • Diagnostic tests • Management	
		Hemophilia A & B	• Factor VIII and IX deficiency and X-linked inheritance • Clinical features • Diagnostic tests • Management • Genetic counseling and prevention	
		Vitamin K Deficiency	• Vitamin K role in coagulation • Neonatal clinical features • Diagnostic evaluation • Vitamin K supplementation and bleeding management	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Approach to a Child with Pancytopenia	• Causes and pathophysiology • Etiological viruses • Associated systemic disorders • Management and complications • Prophylactic vaccination	
		Leukemia and Lymphoma	• Pathogenesis and types of malignancy • Risk factors and pathophysiology • Clinical features and complications • Investigations • Management	
		Idiopathic Thrombocytopenic Purpura (ITP)	• Classification: acute, persistent and chronic • Pathophysiology • Clinical features • Laboratory investigations • Differential diagnosis of thrombocytopenia • Management • Prognosis and follow-up	
9	Renal Disorders	Nephrotic Syndrome	• Primary and secondary classification • Pathogenesis/pathology • Clinical features • Complications • Laboratory and imaging investigations • Pharmacologic and supportive management	05 MCQs
		Acute Renal Failure	• Prerenal, intrinsic and postrenal types • Pathophysiology and causes • Clinical features • Complications • Laboratory and imaging investigations • Management • Prognosis and follow-up	
		Chronic Renal Failure	• Definition and stages • Pathophysiology and causes • Clinical features • Complications • Laboratory and imaging investigations • Management • Long-term outcomes and follow-up	
		Urinary Tract Infection	• Age-specific etiological agents • Clinical features • Risk factors and predisposing conditions • Laboratory and imaging investigations • Differential diagnosis • Antimicrobial/supportive management • Complications, prognosis, prevention and follow-up	
		Approach to a Child with Hematuria	• Common causes • Clinical features • Laboratory and imaging investigations • Management principles	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Acute Post-streptococcal Glomerulonephritis	• Etiology and pathogenesis • Clinical features • Laboratory and imaging investigations • Differential diagnosis • Supportive and pharmacologic management • Complications, prognosis and follow-up	
10	Neonatology	Neonatal Sepsis	• Definition • Etiologies, pathogens and prenatal risk factors • Clinical presentation • Complications • Management	10 MCQs
		Neonatal Jaundice	• Definition and classification • Etiologies • Blood-group interactions • Complications • Management	
		Newborn Examination and Essential Care	• Common signs on newborn examination • Vitamin K • Cord care • Vaccination • Breastfeeding • Kangaroo care	
		Common Neonatal Problems	• Hypoglycemia: risk factors and management • Common neonatal skin rashes • Prematurity and complications • Birth asphyxia • Respiratory distress syndrome (RDS) • Infant of diabetic mother (IDM) • Hypocalcemia • Low birth weight, SGA, LGA and IUGR • TORCHS infections and effects	
		Newborn Resuscitation	• Transition at birth • Essential care and golden minute • Steps of newborn resuscitation • Theoretical basis of resuscitation steps • Post-resuscitation care	
11	Infectious Diseases	Fever of Unknown Origin (PUO)	• Definition and pediatric criteria • Clinical features • Interpretation of results and differential diagnosis • Management and specialist referral	10 MCQs
		Cholera	• Organism and epidemiology • Pathophysiology of severe dehydration • Clinical features • Laboratory findings • Rehydration management • Prevention and vaccination	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Bacillary Dysentery	• Causative organism • Clinical diagnosis • Stool microscopy and culture • Management • Transmission and prevention	
		Giardiasis	• Causative protozoan • Clinical features • Stool cyst/trophozoite diagnosis • Treatment and prevention	
		Amebiasis	• Causative organism • Clinical features • Diagnostic investigations • Imaging for liver abscess • Treatment	
		Worm Infestation	• Roundworm: clinical features, diagnosis and treatment • Hookworm: clinical features, diagnosis and treatment • Pinworm: clinical features, diagnosis and treatment	
		Poliomyelitis	• Transmission • Clinical diagnosis • Vaccine types and schedule • Acute flaccid paralysis surveillance/supportive care • Long-term complications and rehabilitation	
		Diphtheria	• Organism and transmission • Clinical diagnosis • Management • Vaccination and prevention	
		Tetanus	• Organism and pathophysiology • Clinical features • Wound care, immunization and antitoxin • Management	
		MMR	• Characteristic clinical features • Complications • Confirmatory laboratory investigations • Treatment • Immunization schedule and outbreak control	
		Pertussis	• Organism • Stages • Diagnostic methods • Management, immunization and prophylaxis	
		Chickenpox	• Clinical features • Complications • Laboratory investigations • Management, vaccination and prevention	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Malaria	• Transmission • Clinical features • Blood smear / rapid diagnostic tests • Treatment and prevention	
		Typhoid	• Organism and transmission • Clinical features • Treatment • Prevention	
		Tuberculosis	• Organism and transmission • Pulmonary and extrapulmonary features • Diagnostic investigations • Anti-tubercular therapy • Prevention	
		Dengue Fever	• Clinical features and warning signs • Laboratory tests • Supportive management and prevention	
12	Metabolic Disorders	Galactosemia	• Genetic basis • Neonatal clinical features • Liver, CNS and eye complications • Screening and confirmatory tests • Lactose/galactose restriction • Emergency management • Long-term monitoring • Newborn screening and family counseling	02 MCQs
		Glycogen Storage Diseases	• Definition and major types • Hypoglycemia, hepatomegaly and muscle involvement • Type-specific patterns • Investigations • Dietary and medical management • Acute complications • Long-term monitoring • Genetic counseling	
13	Rheumatology, Bone and Joint Disorder	Septic Arthritis and Osteomyelitis	• Etiology • Clinical features • Differential diagnosis • Investigations • Management and monitoring • Prognosis	02 MCQs
		Juvenile Idiopathic Arthritis	• Diagnostic criteria and classification • Etiology and triggers • Pathophysiology • Differential diagnosis • Baseline and confirmatory investigations • Management • Long-term monitoring • Prognosis and counseling	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
		Systemic Lupus Erythematosus	• Diagnostic criteria • Etiology and triggers • Pathophysiology • Differential diagnosis • Baseline and confirmatory investigations • Management • Long-term monitoring • Prognosis and counseling	
		Henoch–Schönlein Purpura (HSP)	• Definition • Pathogenesis and clinical findings • Investigations and differential diagnosis • Management and prognosis • Acute complications requiring urgent intervention	
14	Genetic Disorder	Chromosomal Abnormalities	• Numerical and structural chromosomal abnormalities • Autosomal and sex chromosome abnormalities • Single-gene defects • Autosomal and X-linked dominant/recessive inheritance • Karyotyping in trisomy 21 and Turner syndrome	02 MCQS
		Down Syndrome	• Translocation, nondisjunction and mosaicism • Epidemiology and clinical features • Diagnostic and screening investigations • Management • Long-term monitoring • Prognosis and parental counseling	
		Turner Syndrome	• Epidemiology and type of defect • Clinical features and associated diseases • Diagnostic investigations • Long-term monitoring • Prognosis and parental counseling	
15	Child Abuse and Pediatric Trauma. Child Psychiatry and Behavioral Sciences	Child Abuse and Pediatric Trauma	• Age estimation for consent • Recognition of suspected child abuse and pediatric trauma in ER/OPD • Forms of abuse: physical, sexual, toxic, chemical/electrical and psychological • Investigations to confirm suspicion • Interpretation of laboratory/radiological findings • Referral for medico-legal certification • Referral for treatment and rehabilitation	03 MCQS
		Child Psychiatry and Behavioural Disorders	• Encopresis • PICA • Enuresis • ADHD • TICS • Autism	

Sr.#	Subject/System/Unit	Topics	Subtopics	MCQs
16	Miscellaneous		Anaphylaxis Resuscitation Poisoning	02 MCQs

Reference Books

Textbook of Paediatrics by PPA Latest Edition

Textbook of Paediatrics by Pervez Akbar Latest Edition



Subject: Experts Contributed for the development of Table of Specifications for Anesthesia

Prof. Dr. Rana Altaf Ahmad
Former Vice Chancellor,
Nishtar Medical University, Multan

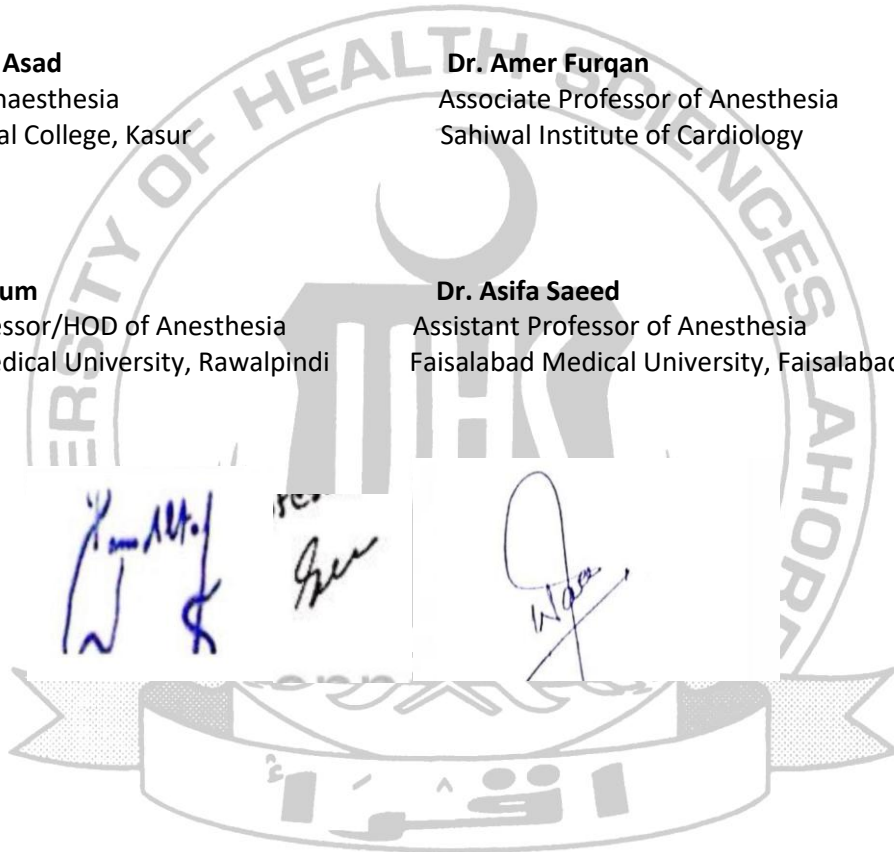
Dr. Saamia Yousaf
Associate Professor of Anesthesia
Fatima Jinnah Medical University, Lahore

Prof. Dr. Naila Asad
Professor of Anaesthesia
Queens Medical College, Kasur

Dr. Amer Furqan
Associate Professor of Anesthesia
Sahiwal Institute of Cardiology

Dr. Waqas Anjum
Assistant Professor/HOD of Anesthesia
Rawalpindi Medical University, Rawalpindi

Dr. Asifa Saeed
Assistant Professor of Anesthesia
Faisalabad Medical University, Faisalabad



PGET PAPER II (Anesthesia)

Table of Specifications

Curriculum of PGET Paper II Anesthesia includes contents of MBBS curriculum & its clinical application covered during house job.

Sr. No.	Subject	Topic	Sub-Topics	No. of MCQs
1	Anatomy (20)	Anatomy for anesthesia	1. Anatomy of spine (04 MCQs) 2. Larynx, trachea and lungs (04 MCQs) 3. Heart (02 MCQs) 4. Peripheral Nervous system (04 MCQs) 5. CNS (03 MCQs) 6. ANS (03 MCQs)	20
2	Physiology (25)	Physiology for anesthesia	1. Respiratory System (04 MCQs) 2. CNS (02 MCQs) 3. CVS (04 MCQs) 4. Neuromuscular physiology (02 MCQs) 5. Kidney/Liver (02 MCQs) 6. Fluids, electrolytes (03 MCQs) 7. Acid base balance (03 MCQs) 8. Blood and components (02 MCQs) 9. Endocrinology (03 MCQs)	25
3	Pharmacology (30)	Pharmacology for anesthesia	1. Muscle relaxants (05 MCQs) 2. IV anesthetics (05 MCQs) 3. Inhalational anesthetic agents (05 MCQs) 4. Analgesics (05 MCQs) 5. Local anesthetics (05 MCQs) 6. Drugs acting on Autonomic nervous system (05 MCQs)	30
4	Physics (10)	Physics for anesthesia	1. Gas Laws (02 MCQs) 2. Equipment (Pipe lines, Cylinder) (02 MCQs) 3. Monitoring (02 MCQs) 4. Gases (NO ₂ , O ₂) (02 MCQs) 5. Vaporizers (02 MCQs)	10
5	Pathophysiology (15)	Pathophysiology for anesthesia	1. Liver (02 MCQs) 2. Kidney (02 MCQs) 3. Respiratory (02 MCQs) 4. Types of Shock (02 MCQs) 5. Anaphylaxis (02 MCQs) 6. Trauma (05 MCQs)	15
Total				100

PGET Paper-I

Table of Specification (TOS)
Basic Medical Sciences for Dental Graduates

Sr.	Subject	Topic	Sub-topics	No. of MCQs
1	Behavioral Sciences	Communication Skills and Non-Pharmacological Interventions in Dental Practice	History taking, Counselling, Informational Care, Handling Difficult Patients and their Families, Breaking Bad News, Crisis Intervention and Disaster Management & Conflict Resolution	06 (At least 2 from each topic)
		Medical ethics and Professionalism	Principles of Medical Ethics & Common Ethical Dilemmas	
		Psychosocial Aspects of Dentistry	Dental Anxiety, Dental Phobia, Systemic Desensitization	
2	Biochemistry	Carbohydrate	Glycolysis, Citric acid cycle & Gluconeogenesis, Hexose monophosphate shunt, Glycogen storage diseases & Diabetes mellitus	14 (At least 2 from each topic)
		Protein	Hemoglobin synthesis and degradation and related disorder, Inborn error of protein metabolism & Urea cycle	
		Lipid	Fatty acid synthesis, Beta-oxidation, Cholesterol synthesis & Lipoproteins	
		Enzymology	Inhibition of Enzyme activity, Regulation of enzyme activity, Enzyme in clinical diagnosis	
		Vitamins & Minerals	Manifestation of deficiency of fat- and water-soluble vitamins, Significance of Iron, calcium, Sodium and potassium	
		Molecular biology & Genetic	Structure and function of Nucleic Acid. DNA replication and translation.	
3	Microbiology	General Bacteriology	Structure / Genetics / Sterilization	06 (At least 1 from each topic)
		Special Bacteriology	Staphylococcus & Streptococcus	
		Special Bacteriology	Mycobacterium	
		Special Virology	DNA Enveloped Viruses	
		Parasitology	Protozoa	

4	Physiology	Homeostasis and Cell Physiology (02)	Homeostasis and feedback mechanisms, cell membrane structure and function, organelles and their functions, endocytosis and exocytosis, synthetic functions of the cell, energy production and locomotion	22 MCQs
		Nerve and Muscle(02)	Transport of ions and molecules, nerve impulse generation and conduction, physiology and properties of skeletal and smooth muscle, neuromuscular transmission, mechanism of muscle contraction, rigor mortis, myasthenia gravis	
		Renal Physiology(02)	Structure and function of kidneys, glomerular filtration, urine formation, micturition, body fluids, acid base balance	
		Blood Physiology (04)	Red blood cells and white blood cells, synthesis and diseases, hemoglobin and iron metabolism, platelets, mechanisms and diseases related to hemostasis, blood groups, transfusion reactions	
		Respiration (02)	Pulmonary volumes and capacities, gas exchange and transport, regulation of respiration, respiration in exercise	
		CNS and Special Senses (03)	Sensations and their pathways, organization and functions of spinal cord, cerebellum, cerebellar cortex (sensory and motor), autonomic nervous system, sleep, CSF, hypothalamus, Special senses basic functions of the physiology of vision, hearing, olfaction, taste and balance	
		GIT (02)	General structure and organization, GI movements, mastication, deglutition, vomiting, defecation.	
		Endocrines (02)	General organization, chemistry, synthesis, storage, function, control and clinical abnormalities of pituitary gland, thyroid gland, parathyroid gland, pancrea, adrenal gland	
		Heart and circulation (03)	Cardiac muscle, excitatory and conductive system of heart, cardiac cycle, heart sounds, ECG basis and interpretation, arrhythmias, hemodynamics, blood flow control and regulation, arterial pulse, cardiac output and venous return, coronary circulation, regulation of arterial blood pressure, diseases of CVS including IHD, cardiac failure, circulatory shock, hypertension	

5	Pharmacology	General Pharmacology	Pharmacokinetics & Pharmacodynamics	16 (At least 02 from each topic)
		ANS	Cholinergic and Adrenergic Agonists & Antagonists	
		Neurology, Psychiatry	Anxiolytics, Typical Sedative / Hypnotics & Newer Drugs, Opioids	
		Anesthesiology	Local anesthetics	
		Analgesics & Anti-inflammatory agents	NSAIDs; Corticosteroids	
		Cardiology, Hematology & Endocrinology	Antihypertensives, Antianginals, Coagulants, Anticoagulants, Thrombolytics, Antiplatelets, Antidiabetics	
		Chemotherapy	Inhibitors of Cell Wall synthesis, Inhibitors of Nucleic Acid synthesis, Antifolates, Inhibitors of Protein synthesis, Antimycobacterial & Antifungal	
		Dental Pharmacology	Antiseptics, Disinfectants, Desensitizing Agents, Oral Hygiene, Drugs Used in Root Canal Therapy & Dental Caries, etc.	
6	General Pathology	Cellular Responses to Stress and Toxic Insults	Adaptations (Hyperplasia, Atrophy, Hypertrophy, Metaplasia) and Cell Injury (causes, morphological alterations and mechanisms of Reversible/Irreversible cell injury), Cell Death (Necrosis, Apoptosis), Intracellular Accumulations and Pathological calcification	10 (At least 2 from each topic)
		Inflammation and Repair	Acute Inflammation, Chronic Inflammation & Tissue repair	
		Hemodynamic Disorders, Thromboembolic Disease, and Shock	Hyperemia & Congestion, Hemostasis, Hemorrhagic Disorders, and Thrombosis Embolism, Infarction & Shock	
		Diseases of the Immune System	Normal immune response & Hypersensitivity reactions (I-IV)	
		Neoplasia	Nomenclature & Epidemiology of Cancer, Characteristics of benign and malignant neoplasms, Molecular basis of cancer, Carcinogenic agents & Clinical aspects of neoplasia	

7		General Anatomy	Osteology & Arthrology & Myology	22 (At least 4 from each topic)
		General Embryology	Gametogenesis & Fertilization & Embryonic Period	
		Histology	Epithelial & Connective tissue, Muscle tissue, Nervous tissue, Circulatory system, Lymphoid system	
		Gross Anatomy of Head & Neck	General topography, Skull, Mandible, Face & Scalp, Parotid Region, Temporal, Infratemporal & Pterygopalatine fossa, Temporomandibular joint, Muscles of mastication, Oral Cavity, Tongue, Hard Palate, Pharynx, Soft Palate, Tooth morphology, Orbit, Extra-ocular muscles, Nasal Cavity, Paranasal Sinuses, Ear, Regions of Neck. Neurovasculature of Head and Neck.	
		Gross Structures of Brain & Spinal Cord	General Organization of Nervous System, Spinal Cord and the tracts, Gross features of Brain Stem, Cerebellum & Cerebral cortex, Cranial Nerves	
8	Research	Research Methodology	Research Design and Methods, Literature Review and Hypothesis Formulation, Data Collection Techniques & Ethical Considerations in Research	04
TOTAL				100

Reference Books

- A Handbook of Behavioral Sciences for Medical & Dental Students, Mowadat H Rana, 3rd Edition
- Lippincott's Illustrated Review of Biochemistry, Pamela C. Champe and Richard A. Harvey, 7th Edition
- Medical Microbiology and Immunology, Warren Levinson, 16th Edition
- Guyton and Hall Textbook of Medical Physiology, 14th Edition
- Katzung's Basic and Clinical Pharmacology, Todd W. Vanderah, 16th Edition
- Robbins & Cotran Pathologic Basis of Disease, Vinay Kumar, Abul K, Abbas, Jon C. Aster, 10th Edition
- General Anatomy, Laiq Hussain Siddiqui, 6th Edition
- Langman's Medical Embryology, 15th Edition
- Medical Histology Text and Atlas, Laiq Hussain Siddiqui, 8th Edition
- Snell's Clinical Anatomy by Regions, 11th Edition
- Snell's Clinical Neuro Anatomy, 9th Edition
- Textbook of Preventive and Community Dentistry, Joseph John, 3rd Edition

Subject Experts Contributed for the development of Table of Specifications for Orthodontics

Prof. Waheed Ul Hamid

Former Principal
de'Mont College of Dentistry, Lahore

Prof. Zubair Hassan Awaisi

Prof. of Orthodontics
Nishtar Institute of Dentistry, Multan

Dr. Shabbir Hussain

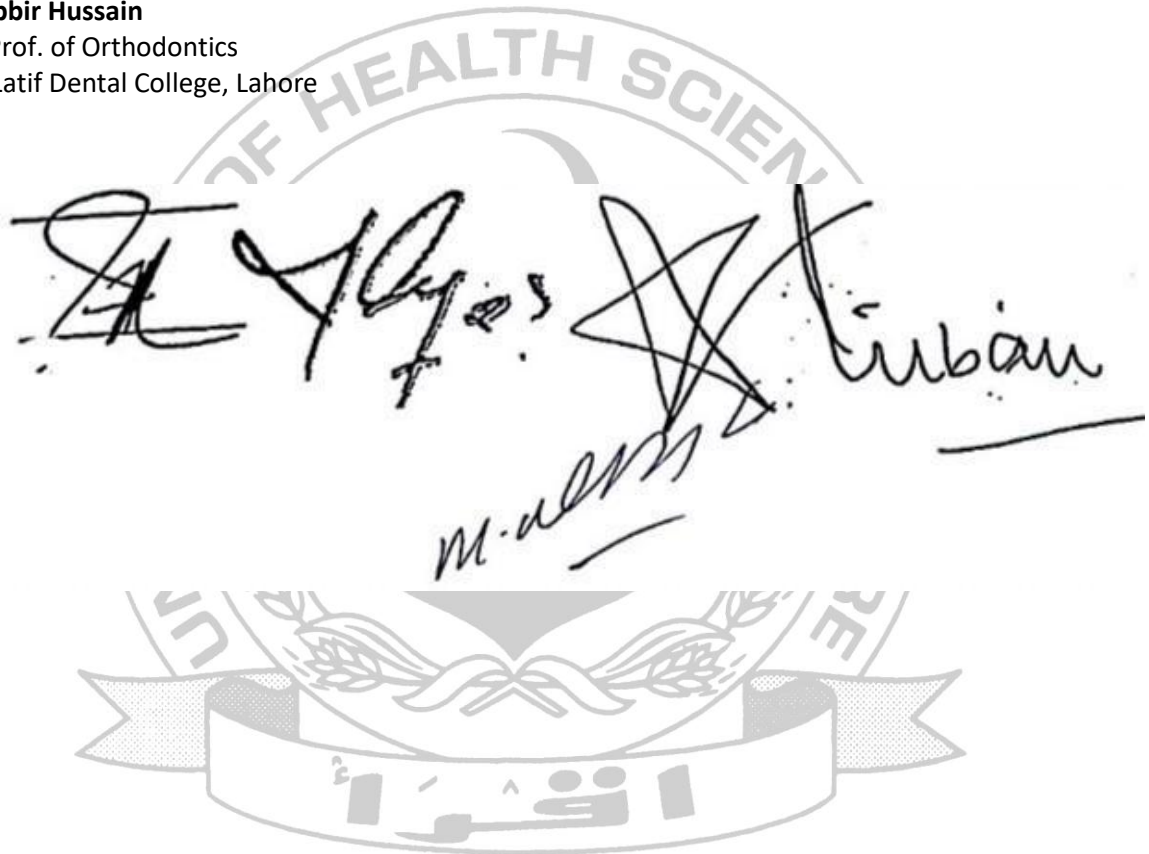
Assoc. Prof. of Orthodontics
Rashid Latif Dental College, Lahore

Prof. Muhammad Ilyas

Prof of Orthodontics
de'Mont College of Dentistry, Lahore

Dr. Muhammad Azeem

Assoc. Prof. of Orthodontics
Fatima Jinnah Institute of Dental Sciences, Lahore



Postgraduate Entry Test (PGET)

Paper II Orthodontics

Table of Specifications (TOS)

Sr.#	Subject	Topic	Subtopic	MCQs
Basic Dental Sciences				
1.	Community Dentistry (5)	Oral Epidemiology	Prevalence and incidence of oral diseases, Risk factors for oral diseases, Methods of data collection and analysis	01 MCQ from any of the Subtopics
		Prevention and Control of Oral Diseases	Fluoride applications (systemic and topical), Community Water Fluoridation, Dental sealants, Education and behavior change methods	01 MCQ from any of the Subtopics
		Oral Health Promotion, Surveys and Indices	Community-based oral health programs, Role of diet and nutrition in oral health, Strategies for promoting oral hygiene, Planning and Conducting Surveys, Oral Health Indices	02 MCQ from any of the Subtopics
		Nutrition and Oral Health	Basic Principles of Nutrition, Diet and Dental Caries, Nutritional Deficiencies and Oral Health, Community Nutrition Programs	01 MCQ from any of the Subtopics
2.	Oral Biology and Tooth Morphology (20)	Craniofacial Development	Pharyngeal Arches and Pouches Development of Maxilla, Mandible, Tongue, Palate and face, Stages of Tooth development	02 MCQs from any of the Subtopics
		Enamel	Structure of Enamel, Amelogenesis, Clinical considerations & Age changes	02 MCQs from any of the Subtopics
		Dentin & Pulp	Structure of Dentin, Dentinogenesis & Zones of pulp, Clinical considerations & Age changes of dentin and pulp	02 MCQs from any of the Subtopics
		Oral Mucosa	"types of oral mucosa with clinical considerations & Non-keratinocytes, Lamina propria, Junctions of mucosa, Development and age changes of oral mucosa	02 MCQs from any of the Subtopics
		Salivary Glands	Development and structure of salivary glands, Ductal modification of saliva, Clinical considerations & Age changes of salivary glands	02 MCQs from any of the Subtopics

		Tooth Morphology	Introduction and Nomenclature, Anatomical & Physiological considerations of form and function, Anatomical characteristics of maxillary and mandibular permanent dentition	10 MCQs from Subtopics
3.	Science of Dental Materials (20)	Properties of Dental Materials	Physical, Chemical, Mechanical and surface Properties of Dental Materials	02 MCQs from Subtopics
		Direct restorative materials	Resin based composites & bonding agents Glass ionomer and Dental cements Dental Amalgam	06 MCQs from Subtopics
		In Direct Restorative Materials	Metals & Ceramic-Based Materials Prosthetic polymers and resins Wrought Alloys & Dental implants	06 MCQs from Subtopics
		Fabrication of Prostheses	Auxiliary Materials: Impression materials Dental waxes Gypsum products Finishing & Polishing Materials Emerging Technologies	06 MCQs from Subtopics
4.	Oral Pathology (15)	Abnormalities of the teeth & Developmental alterations of teeth	Environmental effects on development of tooth structure, Post developmental loss of tooth, discoloration of teeth & Localized disturbances in eruption Developmental alterations in the number of teeth, size of teeth, shape of teeth & structure of teeth	02 MCQs from each Subtopics (04)
		Pulpal Pathology & Periodontal Diseases	Pulpitis, Secondary Dentin, Periapical Granuloma, Periapical Cyst, Periapical Abscess, Cellulitis, Osteomyelitis, Gingivitis, Necrotizing Ulcerative Gingivitis, Plasma Cell Gingivitis, Granulomatous Gingivitis, Drug Related Gingival Hyperplasia & Periodontitis	02 MCQs from any of the Subtopics
		Odontogenic cysts and Tumours	Dentigerous Cyst, Eruption Cyst, Primordial Cyst, Odontogenic Keratocyst, Orthokeratinized Odontogenic Cyst & Nevroid Basal Cell Carcinoma Syndrome, Ameloblastoma, Malignant, Ameloblastoma and Ameloblastic Carcinoma, Adenomatoid Odontogenic Tumor, Calcifying Epithelial Odontogenic Tumor Central Odontogenic Fibroma. Peripheral Odontogenic Fibroma,	

			Granular Cell Odontogenic Tumor & Odontogenic Myxoma	
		Bone Pathology	Osteopetrosis, Fibrous Dysplasia, Ossifying Fibroma, Osteosarcoma & Chondrosarcoma	02 MCQs from any of the Subtopics
		Epithelial Pathology	Squamous Papilloma, Verruca Vulgaris, Condyloma Acuminatum, Leukoplakia Erythroplakia, Oral Submucous Fibrosis, Nicotine Stomatitis, Actinic Keratosis Squamous Cell Carcinoma, Verrucous Carcinoma, Basal Cell Carcinoma	02 MCQs from Subtopics
		Salivary Gland Pathology	Mucocele, Ranula, Sialolithiasis, and Sialadenitis, Sjogren Syndrome & Pleomorphic Adenoma	02 MCQs from Subtopics
		Immune Mediated Disorders	Aphthous Minor, Aphthous Major, Lichen Planus, Lupus Erythematosus, Pemphigus Vulgaris, Angiodema	02 MCQs from Subtopics
		Infectious diseases (bacterial, viral, fungal)	Herpes Simplex Virus, Varicella, Herpes Zoster, Human Immunodeficiency Virus Sinusitis, Actinomycosis & Candida Albicans	01 MCQ from any of the Subtopics
Clinical Dental Sciences				
5.	Orthodontics (40)		Importance of studying growth, Various aspects and definitions of growth and development (e.g. growth, development, hypertrophy, hyperplasia, extracellular matrix, deposition, differentiation, translocation, displacement, drift, growth pattern, differential growth, cephalocaudal gradient of growth and biological maturity indicators etc.) Various types of bone growth (intra membranous, endochondral) Process of growth in different areas of craniofacial complex, Theories of growth of the craniofacial region, Growth sites and centers in the craniofacial complex and their clinical relevance & Different methods of studying physical growth	04 MCQs from Subtopics
		Development of dentition and occlusion.	Early and late fetal development and impact of birth on growth of neonate, Maturation of oral functions, Features of primary	04 MCQs from Subtopics

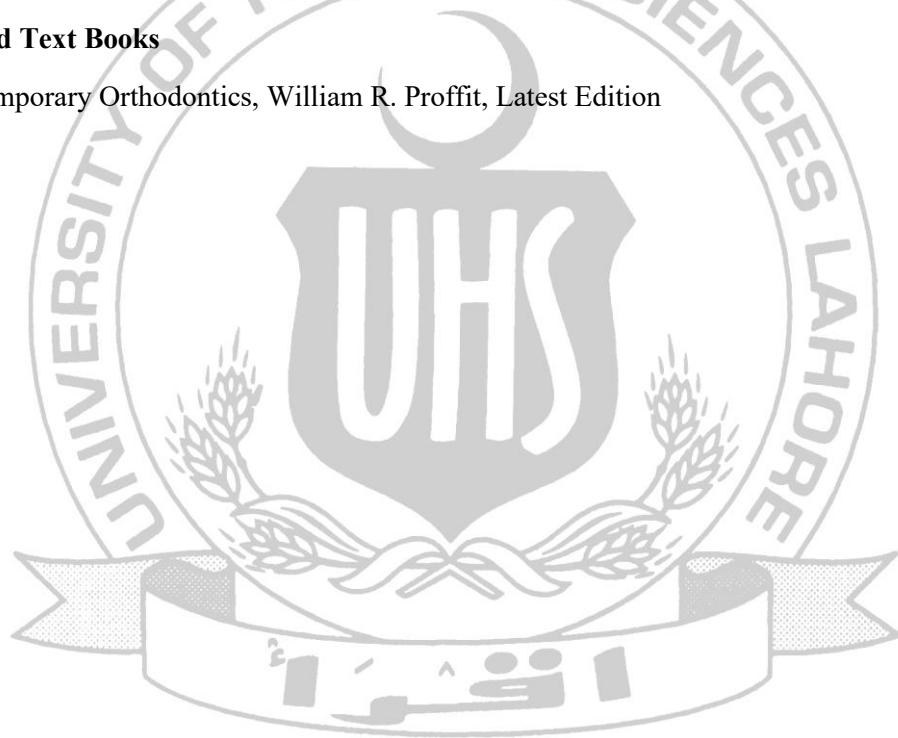
			dentition years, Timing of eruption of primary teeth, Occlusal features of primary dentition, Features of mixed dentition years, Timing and eruption sequence of permanent teeth, Process of physical development in late childhood Chronological, biological and other ages, Skeletal age assessment by using various methods including hand & wrist radiographs and cervical vertebral maturation stages, Space relationship during replacement of incisors, canines and primary molars, Characteristics of the early permanent dentition years, Initiation of adolescence and the timing of puberty, Maturation and aging changes in facial soft tissues, teeth and their alignment & Ideal occlusion including Andrew's six keys of occlusion	
		Classification & Etiology of Malocclusion	Role of various specific causes including genetic influence & environmental factors in the etiology of malocclusion	03 MCQs from Subtopics
		Diagnosis & Treatment Planning	History and clinical examination, extraoral and intraoral assessment, orthodontic records, study models and photographs, assessment of occlusion, space analysis, skeletal and dental diagnosis, problem list, treatment objectives, extraction vs. non-extraction decisions, treatment timing, anchorage requirements, treatment alternatives and prognosis.	04 MCQs from Subtopics
		Radiology & Cephalometrics	Radiographic principles and indications, panoramic and intraoral radiographs, cephalometric radiography, cephalometric landmarks and planes, skeletal and dental relationships, common cephalometric analyses, soft-tissue analysis, growth assessment, cephalometric superimposition and interpretation of treatment changes.	03 MCQs from Subtopics
		Biomechanics & Mechanics	Biologic basis of tooth movement, orthodontic forces and moments, center of resistance, center of rotation, types of tooth	03 MCQs from Subtopics

			movement, force systems, anchorage, friction, arch-wire properties, alignment and leveling, space closure, canine and incisor retraction, and basic orthodontic mechanics.	
		Fixed & Removable Appliances	Principles and indications, components of removable appliances, springs, clasps and screws, fixed appliance components, brackets and tubes, bonding and banding, arch-wires, alignment and leveling, space opening and closure, auxiliaries, elastics and common appliance complications.	03 MCQs from Subtopics
		Jaw Orthopedics & Functional Appliances	Principles of dentofacial orthopedics, growth modification, timing of orthopedic treatment, functional appliance principles, indications and contraindications, mandibular advancement, skeletal and dental effects, activator, bionator, Frankel and twin-block appliances, treatment of Class II malocclusion and stability, treatment of class III malocclusion with functional and orthopedic appliances and orthopedic expansion.	03 MCQs from Subtopics
		Treatment of Class I Malocclusion	Diagnosis and treatment planning, crowding and spacing, space analysis, extraction and non-extraction treatment, alignment and leveling, arch development, crossbite, overbite and overjet correction, open bite and deep bite, serial extraction, anchorage, interproximal reduction, dental expansion retention and stability.	06 MCQs from Subtopics
		Treatment of Class II & III Malocclusion	Diagnosis of skeletal and dental Class II and III, growth modification, functional appliances, headgear, maxillary protraction, extraction and non-extraction treatment, camouflage, anchorage, treatment timing, severe skeletal discrepancies, orthognathic surgery and stability.	03 MCQs from Subtopics
		Syndromes and Cleft Lip & Palate	Craniofacial anomalies and syndromes, effects on craniofacial growth and dentition, classification of cleft lip and palate, dental and skeletal effects, multidisciplinary management, presurgical orthopedics, alveolar bone grafting, orthodontic	02 MCQs from Subtopics

			treatment and orthognathic surgery.	
		Treatment of Adults (TMD, Adjunctive & Orthognathics)	Adult orthodontic diagnosis and treatment limitations, periodontal considerations, TMD assessment and orthodontic considerations, adjunctive orthodontics, interdisciplinary treatment, pre-restorative orthodontics, impacted teeth, implant-related orthodontics, orthognathic surgery and combined orthodontic-surgical treatment.	02 MCQs from Subtopics

Recommended Text Books

1. Contemporary Orthodontics, William R. Proffit, Latest Edition



Subject Experts Contributed for the development of Table of Specifications for Oral & Maxillofacial Surgery

Prof. Nabila Riaz Mirza

Prof. of Oral & Maxillofacial Surgery
De'mont College of Dentistry, Lahore

Prof. Muhammad Waheed Tahir

Prof. of Oral & Maxillofacial Surgery
Nishtar Institute of Dentistry, Multan

Dr. Muhammad Usman Khalid

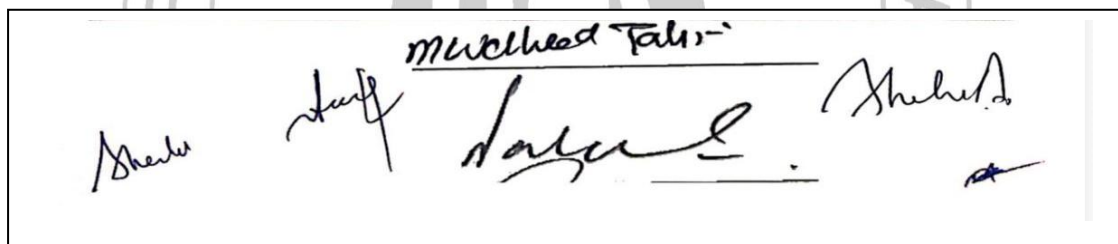
Assoc. Prof. of Oral & Maxillofacial Surgery
PMC, Dental Institute of Faisalabad Medical
University, Faisalabad

Dr. Asif Nazir

Assoc. Prof. of Oral & Maxillofacial Surgery
Fatima Jinnah Institute of Dentistry, Lahore

Dr. Shahid Ali

Assoc. Prof. of Oral & Maxillofacial Surgery
De'mont College of Dentistry, Lahore



Postgraduate Entry Test (PGET)

Paper II

Table of Specifications (TOS) for Oral & Maxillofacial Surgery

Curriculum of PGET paper II includes contents of BDS curriculum & its clinical application covered during house job.

Sr.#	Subject	Topic	Subtopic	MCQs
Basic Dental Sciences				
1.	Community Dentistry (5)	Oral Epidemiology	Prevalence and incidence of oral diseases, Risk factors for oral diseases, Methods of data collection and analysis	01 MCQ from any of the Subtopics
		Prevention and Control of Oral Diseases	Fluoride applications (systemic and topical), Community Water Fluoridation, Dental sealants, Education and behavior change methods	01 MCQ from any of the Subtopics
		Oral Health Promotion, Surveys and Indices	Community-based oral health programs, Role of diet and nutrition in oral health, Strategies for promoting oral hygiene, Planning and Conducting Surveys, Oral Health Indices	02 MCQ from any of the Subtopics
		Nutrition and Oral Health	Basic Principles of Nutrition, Diet and Dental Caries, Nutritional Deficiencies and Oral Health, Community Nutrition Programs	01 MCQ from any of the Subtopics
2.	Oral Biology and Tooth Morphology (20)	Craniofacial Development	Pharyngeal Arches and Pouches Development of Maxilla, Mandible, Tongue, Palate and face, Stages of Tooth development	02 MCQs from any of the Subtopics
		Enamel	Structure of Enamel, Amelogenesis, Clinical considerations & Age changes	02 MCQs from any of the Subtopics
		Dentin & Pulp	Structure of Dentin, Dentinogenesis & Zones of pulp, Clinical considerations & Age changes of dentin and pulp	02 MCQs from any of the Subtopics
		Oral Mucosa	Types of oral mucosa with clinical considerations & Non-keratinocytes, Lamina propria, Junctions of mucosa, Development and age changes of oral mucosa	02 MCQs from any of the Subtopics
		Salivary Glands	Development and structure of salivary glands, Ductal modification of saliva, Clinical considerations & Age changes of salivary glands	02 MCQs from any of the Subtopics
		Tooth Morphology	Introduction and Nomenclature, Anatomical & Physiological considerations of form and function, Anatomical characteristics of maxillary and mandibular permanent dentition	10 MCQs from Subtopics
3.	Oral Pathology (15)	Abnormalities of the teeth & Developmental alterations of teeth	Environmental effects on development of tooth structure, Post developmental loss of tooth, discoloration of teeth & Localized disturbances in eruption Developmental alterations in the number of teeth, size of teeth, shape of teeth & structure of teeth	04 MCQs from any Subtopics
		Pulpal Pathology & Periodontal Diseases	Pulpitis, Secondary Dentin, Periapical Granuloma, Periapical Cyst, Periapical Abscess, Cellulitis, Osteomyelitis, Gingivitis, Necrotizing Ulcerative Gingivitis, Plasma Cell Gingivitis, Granulomatous Gingivitis, Drug Related Gingival Hyperplasia & Periodontitis	02 MCQs from any of the Subtopics
		Odontogenic cysts and Tumours	Dentigerous cyst, eruption cyst, primordial cyst, odontogenic keratocyst, orthokeratinized odontogenic cyst, nevoid basal cell carcinoma syndrome, ameloblastoma, malignant ameloblastoma, ameloblastic carcinoma, adenomatoid odontogenic tumor, calcifying epithelial odontogenic tumor, central odontogenic fibroma, peripheral odontogenic fibroma,	

Sr.#	Subject	Topic	Subtopic	MCQs
			granular cell odontogenic tumor, and odontogenic myxoma	
		Bone Pathology	Osteopetrosis, Fibrous Dysplasia, Ossifying Fibroma, Osteosarcoma & Chondrosarcoma	02 MCQs from any of the Subtopics
		Epithelial Pathology	Squamous papilloma, verruca vulgaris, condyloma acuminatum, leukoplakia, erythroplakia, oral submucous fibrosis, nicotine stomatitis, squamous cell carcinoma, verrucous carcinoma, and basal cell carcinoma	02 MCQs from
		Salivary Gland Pathology	Mucocele, Ranula, Sialolithiasis, and Sialadenitis, Sjogren Syndrome & Pleomorphic Adenoma	02 MCQs from Subtopics
		Immune Mediated Disorders	Aphthous Minor, Aphthous Major, Lichen Planus, Lupus Erythematosus, Pemphigus Vulgaris, Angiodema	02 MCQs from Subtopics
		Infectious diseases (bacterial, viral, fungal)	Herpes Simplex Virus, Varicella, Herpes Zoster, Human Immunodeficiency Virus Sinusitis, Actinomyces & Candida Albicans	01 MCQ from any of the Subtopics
Sr.#	Subject	Topic	Subtopic	MCQs
Clinical Dental Sciences				
4.	Oral & Maxillofacial Surgery (60)	Principles of Surgery, Wound repair and Cross-Infections	Developing a surgical diagnosis Basic necessities for surgery Aseptic technique incisions Flap design Tissue handling Hemostasis Decontamination and debridement Edema control Wound healing Wound repair, Infection Control in Surgical Practice	04 MCQ from any of the Subtopics
		Preoperative Evaluation	Medical history Physical examination Management of patients with compromising medical conditions Management of patients during and after pregnancy	05 MCQ from any of the Subtopics
		Medical Emergencies	Prevention and preparation Continuing Education Office Staff Training Access to Help Emergency Supplies and Equipment Medical emergencies Hypersensitivity Reactions Chest Discomfort Respiratory Difficulty Altered Consciousness	04 MCQ from any of the Subtopics
		Simple and Complex Exodontia	Instrumentation for Basic Oral Surgery, Principles of Routine Exodontia, Principles of More Complex Exodontia, Principles of Management of Impacted Teeth, Postoperative Patient Management, Prevention and Management of Extraction complications	03 MCQ from any of the Subtopics
		Odontogenic Infections	Principles of Management and Prevention of Odontogenic Infections, Complex Odontogenic Infections, Principles of Endodontic Surgery. Management of the Patient Undergoing Radiotherapy	05 MCQ from any of the Subtopics

Sr.#	Subject	Topic	Subtopic	MCQs
			or Chemotherapy Odontogenic Diseases of the Maxillary Sinus.	
		Salivary Glands Pathology	Embryology, anatomy, and physiology Diagnostic modalities Obstructive salivary gland disease: Sialolithiasis Mucus retention and extravasation phenomena Salivary gland infections Traumatic salivary gland injuries Salivary gland neoplasms	03 MCQ from any of the Subtopics
		Maxillofacial Trauma	Soft Tissue and Dentoalveolar Injuries, Management of Facial Fractures Maxillary Fractures Mandibular fractures Zygomatic fractures	08 MCQ from any of the Subtopics
		Surgical management of oral pathological lesions	Principles of Differential Diagnosis and Biopsy. Odontogenic and Non- odontogenic cysts and tumors Oral malignancies	08 MCQ from any of the Subtopics
		Dento-Facial deformities	Correction of Dentofacial Deformities, Facial Cosmetic Surgery, Management of Patients with Orofacial Clefts, Surgical Reconstruction of Defects of the Jaws	08 MCQ from any of the Subtopics
		Facial Neuropathology	Basics of pain neurophysiology Classification of orofacial pains Neuropathic facial pains Chronic headache Evaluation of patient with orofacial pain	03 MCQ from any of the Subtopics
		Temporo mandibular joint disorders	Evaluation and Classification of temporomandibular disorders Management options Permanent occlusion modification Temporomandibular joint surgery Distraction osteogenesis	03 MCQ from any of the Subtopics
		Basics of Dental Implants	Introduction to the multidisciplinary approach Peri-implantation biologic and functional considerations Preoperative assessment and treatment planning Surgical techniques (basic) Surgical preparation Postoperative management Implant stability Complications Implant components	03 MCQ from any of the Subtopics
		Local Anaesthesia	Types of local anaesthetics Techniques of local anaesthesia Complications of local anaesthesia	03 MCQ from any of the Subtopics

Recommended Text Books

1. Textbook of Preventive and Community Dentistry. Joseph John, Latest Edition
2. Tencate's Oral Histology, Development, Structure & Function, Antonio Nanci Latest Edition
3. Concise Dental Anatomy and Morphology, Fuller's, Latest Edition
4. Contemporary Oral & Maxillofacial Surgery, Hupp, Ellis & Tucker, Latest Edition
5. Handbook of Local Anesthesia, Stanley Malamed, Latest Edition
6. Contemporary Oral & Maxillofacial Pathology, Sapp, Eversole and Wyscoki, Latest Edition

Subject Experts Contributed for the development of Table of Specifications for Operative Dentistry

Prof. Saima Razzaq Khan

Head, Department of Operative Dentistry
Lahore Medical & Dental College, Lahore

Prof. Sarosh Ehsan

Head, Department of Operative Dentistry
FMH, College of Dentistry, Lahore

Prof. Muhammad Rauf Ahmed

Prof of Operative Dentistry
Nishtar Institute of Dentistry, Multan

Dr. Shazia Naaz

Assoc. Prof of Operative Dentistry
De'mont College of Dentistry, Lahore

Dr. Naureen Sarwar

Assoc. Prof of Operative Dentistry
PMC, Dental Institute, Faisalabad Medical
University, Faisalabad

Dr. Sana Akram

Assist. Prof. of Operative Dentistry
Fatima Jinnah Institute of Dental Sciences,
Lahore

Dr. Maliha Munir

Assist. Prof. of Operative Dentistry
PMC, Dental Institute, Faisalabad Medical
University, Faisalabad

The image shows a collection of handwritten signatures in black ink. From left to right, the signatures are: 'Saima', 'Muhammad Rauf', 'Shazia Naaz', 'Naureen Sarwar', and 'S.A'. Below the signatures is a large, faint watermark of the University of Health Sciences logo, which features a circular emblem with a crescent and star, and a banner at the bottom with the text 'UNIVERSITY OF HEALTH SCIENCES' and 'FACULTY OF DENTISTRY'.

Postgraduate Entry Test (PGET)

Paper II Operative DentistryTable of Specifications (TOS)

Sr.#	Subject	Topic	Subtopic	MCQs
Basic Dental Sciences				
1.	Community Dentistry (07)	Oral Epidemiology	Prevalence and incidence of oral diseases, Risk factors for oral diseases, Methods of data collection and analysis	01 MCQ
		Prevention and Control of Oral Diseases	Fluoride applications (systemic and topical), Community Water Fluoridation, Dental sealants, Education and behavior change methods	02 MCQs
		Oral Health Promotion, Surveys and Indices	Community-based oral health programs, Role of diet and nutrition in oral health, Strategies for promoting oral hygiene, Planning and Conducting Surveys, Oral Health Indices	03 MCQs
		Nutrition and Oral Health	Basic Principles of Nutrition, Diet and Dental Caries, Nutritional Deficiencies and Oral Health.	01 MCQ
2.	Oral Biology and Tooth Morphology (11)	Craniofacial Development	Development of Maxilla, Mandible, Tongue, Palate and face, Stages of Tooth development	01 MCQ
		Enamel	Structure of Enamel, Amelogenesis, Clinical considerations & Age changes	01 MCQ
		Dentin & Pulp	Structure of Dentin, Dentinogenesis & Zones of pulp, Clinical considerations & Age changes of dentin and pulp	01 MCQ
		Oral Mucosa	Types of oral mucosa with clinical considerations & Non keratinocytes, Lamina propria, Junctions of mucosa, Development and age changes of oral mucosa	01 MCQ
		Salivary Glands	Development and structure of salivary glands, Ductal modification of saliva, Clinical considerations & Age changes of salivary glands	01 MCQ
		Tooth Morphology	Introduction and Nomenclature, Anatomical & Physiological considerations of form and function, Anatomical characteristics of maxillary and mandibular permanent dentition	06 MCQs

3.	Science of Dental Materials (11)	Properties of Dental Materials	Physical, Chemical, Mechanical and surface Properties of Dental Materials	02 MCQs
4.	Oral Pathology (11)	Direct restorative materials	Resin based composites & bonding agents Glass ionomer and Dental cements Dental Amalgam	03 MCQs
		In Direct Restorative Materials	Metals & Ceramic-Based Materials Prosthetic polymers and resins Wrought Alloys & Dental implants	03 MCQs
		Fabrication of Prostheses	Auxiliary Materials: Impression materials Dental waxes Gypsum products Finishing & Polishing Materials Emerging Technologies	03 MCQs
		Abnormalities of the teeth & Developmental alterations of teeth	Environmental effects on development of tooth structure, Post-developmental loss of tooth, discoloration of teeth & Localized disturbances in eruption Developmental alterations in the number of teeth, size of teeth, shape of teeth & structure of teeth	03 MCQs
		Pulpal Pathology & Periodontal Diseases	Pulpitis, Secondary Dentin, Periapical Granuloma, Periapical Cyst, Periapical Abscess, Cellulitis, Osteomyelitis, Gingivitis, Necrotizing Ulcerative Gingivitis, Plasma Cell Gingivitis, Granulomatous Gingivitis, Drug Related Gingival Hyperplasia & Periodontitis	03 MCQs
		Odontogenic cysts and Tumours	Dentigerous Cyst, Eruption Cyst, Primordial Cyst, Odontogenic Keratocyst, Orthokeratinized Odontogenic Cyst & Nevroid Basal Cell Carcinoma Syndrome, Ameloblastoma, Malignant, Ameloblastoma and Ameloblastic Carcinoma, Adenomatoid Odontogenic Tumor, Calcifying Epithelial Odontogenic Tumor Central Odontogenic Fibroma. Peripheral Odontogenic Fibroma, Granular Cell Odontogenic Tumor & Odontogenic Myxoma	01 MCQ
		Bone Pathology	Osteopetrosis, Fibrous Dysplasia, Ossifying Fibroma, Osteosarcoma & Chondrosarcoma	01 MCQ

		Epithelial Pathology	Squamous Papilloma, Verruca Vulgaris, Condyloma Acuminatum, Leukoplakia, Erythroplakia, Oral Submucous Fibrosis, Nicotine Stomatitis, Actinic Keratosis Squamous Cell Carcinoma, Verrucous Carcinoma, Basal Cell Carcinoma	01 MCQ
		Salivary Gland Pathology	Mucocele, Ranula, Sialolithiasis, and Sialadenitis, Sjogren Syndrome & Pleomorphic Adenoma	01 MCQ
		Infectious diseases (bacterial, viral, fungal)	Herpes Simplex Virus, Varicella, Herpes Zoster, Human Immunodeficiency Virus Sinusitis, Actinomycosis & Candida Albicans	01 MCQ
Clinical Dental Sciences				
5.	Operative Dentistry (60)			
	Restorative Dentistry (20)	Intracoronar Restorations/ Aesthetic Procedures	Dental Amalgam Restorations, Dental Composites Restorations, Pulp Protection, liners and bases & Instruments and equipment, inlays /onlays	15 MCQs
		Dental Caries	Tooth Anatomy, Etiology, Principles of Cavity preparations, Pathogenesis, Classifications, Risk Factors, Investigations/Diagnosis & Management	05 MCQs
	Endodontics (10)	Diseases of Dental Pulp and Periapical Tissues & Dental Trauma/Tooth Injuries	Pulp Anatomy, Histology of Dental Pulp, Etiology, Pathogenesis, Classification of Pulpitis, Investigations/Diagnosis, Management, Procedural Accidents and Complications & Classification tooth injuries, Investigations, Diagnosis, Management, Apexification, Apexogenesis, Root Resorption, etiology, pathogenesis and management, MTA & BioCeramics	7 MCQs

		Perio-Endo Lesions & Longitudinal Tooth Injuries/VRF	Etiology, Pathogenesis, Investigations/ Diagnosis/ Management & Etiology, Pathogenesis, Risk Factors Investigations/Diagnosis/ Management	3 MCQs
	Crown & Bridge (10)	Planning & Preparation	Principals of Occlusion, Investigations, Planning	3 MCQs
		Clinical Procedures	Classification of crowns and Bridges, Components of Bridges, Tooth Preparations of various crown types, Restoration of endodontically treated teeth, Temporization, Tissue Management & Material Science	7 MCQs
	Pedodontics (05)		Chronology of human dentition, behavior and personality development and basic behavioral considerations governing the treatment plan of a child patient periodontal diseases in children. Diagnostic aids -radiology dental caries, preventive and operative management pulpotomy and polypectomy of primary teeth. Classification and treatment of injuries to teeth hospitalization protocol of a child patient. Common oral habits, their implications and treatment oral changes related to known systemic abnormalities assessment of handicapped patient and man management categories for mentally handicapped patients	5 MCQs

	Periodontology /Implant (6)	Microbiology of dental plaque Clinical features and diagnosis of gingival /periodontal diseases Pathogenesis of periodontal diseases Manifestation of Systemic conditions/Smoking/Pregnancy Comprehensive diagnosis and treatment planning The periodontal/endodontic interface, Periodontal instrumentation Non-Surgical/Surgical Management of periodontitis. Management of Furcation Defects. Management of Gingival Recession in esthetic zone Restorative Periodontal Interface, Periodontal Antimicrobial therapy and Maintenance / Biomaterials & Biomechanics for dental implants Treatment plans on the basis of diagnostic records, related to key implant positions and implant number	06 MCQs
	Interdisciplinary (09)	Oral Medicine Oral Radiology	09 MCQs

Recommended Text Books

1. Textbook of Preventive and Community Dentistry. Joseph John, Latest Edition
2. Tenca's Oral Histology, Development, Structure & Function, Antonio Nanci Latest Edition
3. Concise Dental Anatomy and Morphology, Fuller's, Latest Edition
4. Philips Science of Dental Materials, Kenneth J. Anusavice Latest Edition
5. Contemporary Oral & Maxillofacial Surgery, Hupp, Ellis & Tucker, Latest Edition
6. Sturdevant's Art and Science of Operative Dentistry, Andre Ritter, Latest Edition
7. Endodontics Principles and Practice, Torabinejad Latest Edition
8. Carranza, Takei, Latest Edition
9. Contemporary Oral & Maxillofacial Pathology, Sapp, Eversole and Wysoki, Latest Edition
10. Pediatric Dentistry by Wellbury
11. Summit's Fundamentals of Operative Dentistry, Latest Edition

Subject Experts Contributed for the development of Table of Specifications for Prosthodontics

Prof. Muhammad Waseem Ullah Khan

Prof. of Prosthodontics

Fatima Jinnah Institute of Dental Sciences,
Lahore

Dr. Amir Rafique

Assoc. Prof. of Prosthodontics

Fatima Jinnah Institute of Dental Sciences,
Lahore

Prof. Momina Umar

Prof. of Prosthodontics

De'Mont College of Dentistry, Lahore

Dr. Mehvish

Assist. Prof. of Prosthodontics

Nishtar Institute of Dentistry, Multan



Table of Specifications (TOS) for Paper II Prosthodontics

Sr No	Subject	Topic	Subtopic	MCQs No
Basic Dental Sciences				
1.	Community Dentistry(5)	Oral Epidemiology	Prevalence and incidence of oral diseases, Risk factors for oral diseases, Methods of data collection and analysis	01
		Prevention and Control of Oral Diseases	Fluoride applications (systemic and topical), Community Water Fluoridation, Dental sealants, Education and behavior change methods	01
		Oral Health Promotion, Surveys and Indices	Community-based oral health programs, Role of diet and nutrition in oral health, Strategies for promoting oral hygiene, Planning and Conducting Surveys, Oral Health Indices	02
		Nutrition and Oral Health	Basic Principles of Nutrition, Diet and Dental Caries, Nutritional Deficiencies and Oral Health, Community Nutrition Programs	01
2.	Oral Biology and Tooth Morphology (20)	Craniofacial Development	Pharyngeal Arches and Pouches Development of Maxilla, Mandible, Tongue, Palate and face, Stages of Tooth development	02
		Enamel	Structure of Enamel, Amelogenesis, Clinical considerations & Age changes	02
		Dentin & Pulp	Structure of Dentin, Dentinogenesis & Zones of pulp, Clinical considerations & Age changes of dentin and pulp	02
		Oral Mucosa	Types of oral mucosa with clinical considerations & Non-keratinocytes, Lamina propria, Junctions of mucosa, Development and age changes of oral mucosa	02
		Salivary Glands	Development and structure of salivary glands, Ductal modification of saliva, Clinical considerations & Age changes of salivary glands	02
		Tooth Morphology	Introduction and Nomenclature, Anatomical & Physiological considerations of form and function, Anatomical characteristics of maxillary and mandibular permanent dentition	10
3.	Science of Dental Materials (20)	Properties of Dental Materials	Physical, Chemical, Mechanical and surface properties of Dental Materials	02
		Direct restorative materials	Resin based composites & bonding agents Glass ionomer and Dental cements Dental Amalgam	06
		In Direct Restorative Materials	Metals & Ceramic-Based Materials Prosthetic polymers and resins Wrought Alloys & Dental Implants	06
		Fabrication of Prostheses	Auxiliary Materials: Impression materials Dental waxes Gypsum products Finishing & Polishing Materials Emerging Technologies	06

Sr No	Subject	Topic	Subtopic	MCQs No
	Oral Pathology(15)	Abnormalities of the teeth & Developmental alterations of teeth	Environmental effects on development of tooth structure, Post developmental loss of tooth, discoloration of teeth & Localized disturbances in eruption Developmental alterations in the number of teeth, size of teeth, shape of teeth & structure of teeth	02
		Pulpal Pathology & Periodontal Diseases	Pulpitis, Secondary Dentin, Periapical Granuloma, Periapical Cyst, Periapical Abscess, Cellulitis, Osteomyelitis, Gingivitis, Necrotizing Ulcerative Gingivitis, Plasma Cell Gingivitis, Granulomatous Gingivitis, Drug Related Gingival Hyperplasia & Periodontitis	02
		Odontogenic cysts and Tumours	Dentigerous cyst, eruption cyst, primordial cyst, odontogenic keratocyst, orthokeratinized odontogenic cyst, nevoid basal cell carcinoma syndrome, ameloblastoma, malignant ameloblastoma, ameloblastic carcinoma, adenomatoid odontogenic tumor, calcifying epithelial odontogenic tumor, central odontogenic fibroma, peripheral odontogenic fibroma, granular cell odontogenic tumor, and odontogenic myxoma Odontogenic Myxoma	02
		Bone Pathology	Osteopetrosis, Fibrous Dysplasia, Ossifying Fibroma, Osteosarcoma & Chondrosarcoma	02
		Epithelial Pathology	Squamous Papilloma, Verruca Vulgaris, Condyloma Acuminatum, Leukoplakia Erythroplakia, Oral Submucous Fibrosis, Nicotine Stomatitis, Actinic Keratosis Squamous Cell Carcinoma, Verrucous Carcinoma, Basal Cell Carcinoma	02
		Salivary Gland Pathology	Mucocele, Ranula, Sialolithiasis, and Sialadenitis, Sjogren Syndrome & Pleomorphic Adenoma	02
		Immune Mediated Disorders	Aphthous Minor, Aphthous Major, Lichen Planus, Lupus Erythematosus, Pemphigus Vulgaris, Angiodema	02

Sr No	Subject	Topic	Subtopic	MCQs No
		Infectious diseases (bacterial,viral,fungal)	Herpes Simplex Virus, Varicella, Herpes Zoster, Human Immunodeficiency Virus Sinusitis, Actinomycosis & Candida Albicans.	01
Clinical Dental Sciences				
7.	Prosthodontics (40)	Partial Denture	History and examination & Classification of partial denture Components of cast partial denture, Acrylic removable partial dentures, surveying	10
		Complete Dentures	Preparation of mouth with complete denture, Steps of fabrication of complete dentures Jaw relationships, Occlusion & Delivery of prosthesis, follow up and maintenance, over dentures, immediate dentures, articulators.	10
		Dental Implant	Osseointegration, implant success criteria, surgical and prosthodontic steps of dental implant prosthesis, examination and evaluation of the implant patient, and implant-retained overdentures.	10
		Miscellaneous	Anatomy & Physiology of e-dentures, anatomical landmarks, Fixed Partial dentures, preparations and designs of fixed dentures, Maxillofacial prosthesis, dental materials, digital dentures	10

Recommended Text Books

1. Textbook of Preventive and Community Dentistry. Joseph John, Latest Edition
2. TenCate's Oral Histology, Development, Structure & Function, Antonio Nanci Latest Edition
3. Concise Dental Anatomy and Morphology, Fuller's, Latest Edition
4. Contemporary Oral and Maxillofacial Pathology by Sapp, J. Philip
5. Philips Science of Dental Materials, Kenneth J. Anusavice Latest Edition
6. McCracken's Removable Partial Prosthodontics, Alen Car and Brown, Latest Edition
7. Boucher's Prosthodontic Treatment for Edentulous Patients, George, Gunar and Bolender, Latest Edition
8. Planning and Making of Crown and Bridges by Bernard Smith, Latest Edition

Subject Experts Contributed for the development of Table of Specifications for Periodontology

Prof. Khurram Atta Ullah

Prof. of Periodontology
FMH, College of Dentistry, Lahore

Prof. Amjad Bari

Prof. of Periodontology
Nishtar Institute of Dentistry, Lahore

Dr. Sadaf Qadir

Assist. Prof. of Periodontology
De'mont College of Dentistry, Lahore

Dr. Muhammad Yousaf Ali

Assist. Prof. of Periodontology
Fatima Jinnah Institute of Dental Sciences,
Lahore

Dr. Farheen Qureshi

Assist. Prof. of Periodontology
FMH, College of Dentistry, Lahore



Postgraduate Entry Test (PGET) Paper II Periodontology**Table of Specifications (TOS)**

Sr. #	Subject	Topic	Subtopic	MCQs
Basic Dental Sciences				
1.	Community Dentistry (5)	Oral Epidemiology	Prevalence and incidence of oral diseases, Risk factors for oral diseases, Methods of data collection and analysis	01 MCQ
		Prevention and Control of Oral Diseases	Fluoride applications (systemic and topical), Community Water Fluoridation, Dental sealants, Education and behavior change methods	01 MCQ
		Oral Health Promotion, Surveys and Indices	Community-based oral health programs, Role of diet and nutrition in oral health, Strategies for promoting oral hygiene, Planning and Conducting Surveys, Oral Health Indices	02 MCQs
		Nutrition and Oral Health	Basic Principles of Nutrition, Diet and Dental Caries, Nutritional Deficiencies and Oral Health, Community Nutrition Programs	01 MCQ
2.	Oral Biology and Tooth Morphology (8)	Craniofacial Development	Pharyngeal Arches and Pouches Development of Maxilla, Mandible, Tongue, Palate and face, Stages of Tooth development	01 MCQs
		Enamel	Structure of Enamel, Amelogenesis, Clinical considerations & Age changes	01 MCQs
		Dentin & Pulp	Structure of Dentin, Dentinogenesis & Zones of pulp, Clinical considerations & Age changes of dentin and pulp	02 MCQs

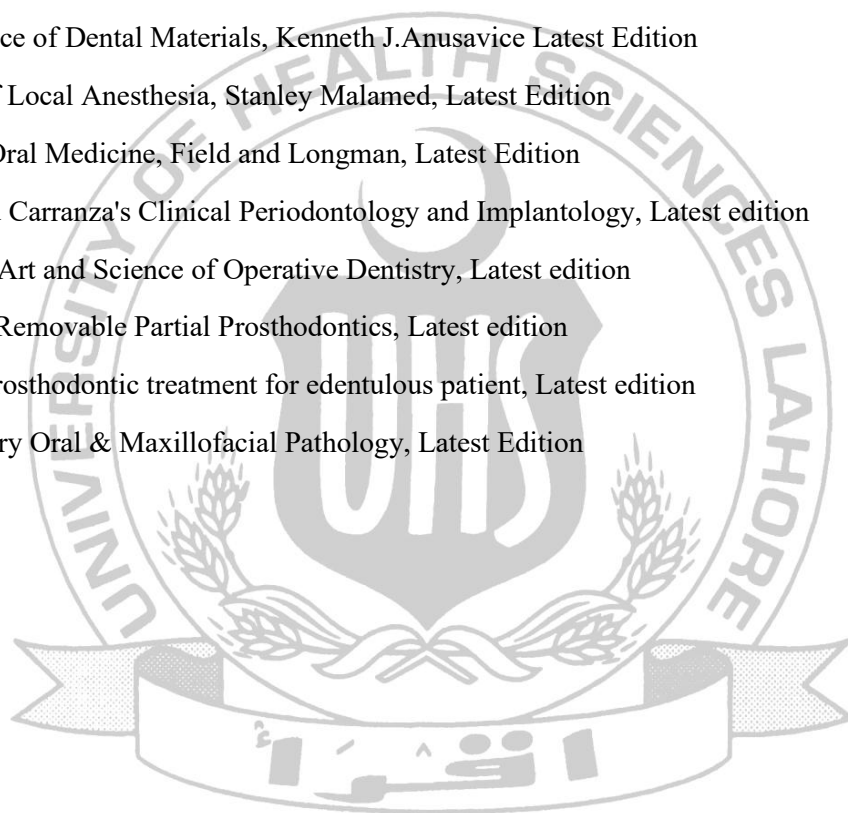
Sr. #	Subject	Topic	Subtopic	MCQs
		Oral Mucosa	types of oral mucosa with clinical considerations & Non-keratinocytes, Lamina propria, Junctions of mucosa, Development and age changes of oral mucosa	02 MCQs
		Tooth Morphology	Introduction and Nomenclature, Anatomical & Physiological considerations of form and function, Anatomical characteristics of maxillary and mandibular permanent dentition	2 MCQs
3.	Science of Dental Materials (7)	Properties of Dental Materials	Physical, Chemical, Mechanical and surface Properties of Dental Materials	02 MCQs
		Impression Materials	Hydrocolloids and silicones	03 MCQs
		Metallurgy	Metals and alloys; Titanium and its alloys	02 MCQs
Clinical Dental Sciences				
4.	Oral Medicine (08)	Management of Oral lesions	Infections; Vesiculobullous lesions; Orofacial granulomas; Oral ulceration; White lesions; Orofacial pain; Systemic diseases with oral manifestations	08 MCQs
5.	Periodontology (40)	Normal Periodontium	Structure of Normal Periodontium and Periodontal Attachment; Age related changes in periodontium	04 MCOS
		Periodontal Pathology	Etiology & Pathogenesis of periodontal disease; 2017 Classifications of periodontal disease, diagnosis & risk Factors; Gingival diseases; Periodontal diseases; Perio-systemic interactions	16 MCOs

Sr. #	Subject	Topic	Subtopic	MCQs
		Periodontal Therapy	Non-surgical periodontal therapy/Professional Mechanical Plaque removal (PMPR); Indications for Periodontal Surgery; Principles of Periodontal regeneration; Principles of supportive periodontal therapy (periodontal maintenance)	12 MCQs
		Oral Implantology	Principles of Osteointegration; Types of Endosseous dental implants	08 MCQs
6.	Oral Pathology (10)	Abnormalities of the teeth & Developmental alterations of teeth	Environmental effects on development of tooth structure, Post developmental loss of tooth, discoloration of teeth & Localized disturbances in eruption; Developmental alterations in the number of teeth, size of teeth, shape of teeth & structure of teeth	02 MCQs from each Subtopics
		Pulpal Pathology & Periodontal Diseases	Pulpitis, Secondary Dentin, Periapical Granuloma, Periapical Cyst, Periapical Abscess, Cellulitis, Osteomyelitis, Gingivitis, Necrotizing Ulcerative Gingivitis, Plasma Cell Gingivitis, Granulomatous Gingivitis, Drug Related Gingival Hyperplasia & Periodontitis	02 MCQs
		Bone Pathology	Osteopetrosis, Fibrous Dysplasia, Ossifying Fibroma, Osteosarcoma & Chondrosarcoma	01 MCQs
		Epithelial Pathology	Squamous Papilloma, Verruca Vulgaris, Condyloma Acuminatum, Leukoplakia Erythroplakia, Oral Submucous Fibrosis, Nicotine Stomatitis, Actinic Keratosis, Squamous Cell Carcinoma, Verrucous Carcinoma, Basal Cell Carcinoma	02 MCQs
		Immune Mediated Disorders	Aphthous Minor, Aphthous Major, Lichen Planus, Lupus Erythematosus, Pemphigus Vulgaris, Angiodema	01 MCQs

Sr. #	Subject	Topic	Subtopic	MCQs
		Infectious diseases (bacterial, viral, fungal)	Herpes Simplex Virus, Varicella, Herpes Zoster, Human Immunodeficiency Virus, Sinusitis, Actinomycosis & Candida Albicans	02 MCQs
7	Oral Surgery (9)	Local Anesthesia	Fundamentals and Techniques of oral anesthesia of oral local anesthesia	05 MCOs
			Pharmacology of oral anesthetic agents	02 MCQs
			Principles of Exodontia	02 MCQS
8	Prosthodontics (6)		Assessment and types of occlusion	02 MCQs
			Principles of tooth preparation	03 MCQs
			Classification of edentulism	01 MCQs
9	Operative dentistry & Endodontics (7)		Margins of restorations	02 MCQs
			Diagnosis of pulpal conditions	03 MCQS
			Fundamentals of access cavity and canal preparation	02 MCQs

Recommended Text Books

1. Textbook of Preventive and Community Dentistry. Joseph John, Latest Edition
2. Tencate's Oral Histology, Development, Structure & Function, Latest Edition
3. Concise Dental Anatomy and Morphology, Fuller's, Latest Edition
4. Philips Science of Dental Materials, Kenneth J. Anusavice Latest Edition
5. Handbook of Local Anesthesia, Stanley Malamed, Latest Edition
6. Tyldesley's Oral Medicine, Field and Longman, Latest Edition
7. Newman and Carranza's Clinical Periodontology and Implantology, Latest edition
8. Sturdevant's Art and Science of Operative Dentistry, Latest edition
9. McCracken's Removable Partial Prosthodontics, Latest edition
10. Boucher's Prosthodontic treatment for edentulous patient, Latest edition
11. Contemporary Oral & Maxillofacial Pathology, Latest Edition



**University of Health Sciences
Lahore**

+92 42 111 333 366
www.uhs.edu.pk