



STUDY GUIDE BLOCK-VI

BDS YEAR-2

BLOCK: VI
Academic Year: 2026-27
Duration: 13 Weeks



DISCLAIMER

- Developing a study guide is a dynamic process and undergoes iteration according to the needs and priorities.
 - This study guide is subjected to the change and modification over the whole academic year.
 - However, students are advised to use it as a guide for respective modules.
 - It is to declare that the learning objectives (general and specific) and the distribution of assessment tools (both theory and practical) are obtained from M. Islam Dental College Gujranwala. These can be obtained from: <https://www.uhs.edu.pk/>
 - The time tables are for guiding purpose. It is to advise that final timetables are always displayed over the notice boards of each lecture hall.
 - Students are encouraged to provide feedback via module coordinator.
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Vision of UHS

“UHS is a leading University aiming to keep its graduates apt with the ever-emerging global health challenges, evolving educational methodologies, and emerging technological advancements to maintain its distinguishable position as a Medical University.”

Mission of MIDC

To emerge as a globally acclaimed institute that prepares compassionate, knowledgeable & skilled dental professionals excelling in innovative research, patient care & community service

Program Outcomes:

At the end of the BDS program, the dental graduate should be able to:

1. **Clinical Competence:** Graduates will demonstrate essential clinical skills, knowledge, and attitude to provide safe, effective, and ethical dental care to diverse populations.
 2. **Community-Oriented Care:** Students will develop a commitment to serving underserved communities, understanding the specific oral health challenges faced by Pakistan’s population, and contributing to public health initiatives.
 3. **Ethical and Professional Conduct:** Graduates will uphold high standards of ethical practice, showing respect, empathy, and accountability in all patient and professional interactions.
 4. **Lifelong Learning:** Graduates will embrace lifelong learning, continually updating their skills and knowledge to keep pace with advances in dental science and technology.
 5. **Leadership and Collaboration:** Students will be prepared to take on leadership roles within healthcare teams, collaborating effectively with other professionals to enhance patient care.
 6. **Research and Innovation:** Graduates will engage in or support research and innovation in dental science, contributing to evidence-based practices that advance oral health in Pakistan.
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MODULE COMMITTEE

Sr. No.	Name	Department & Designation	Role
1.	Prof. Dr. Rana Modassir	Principal	Curriculum Director
2.	Prof. Dr. M. Saif Ullah	HOD, DME	Assistant curriculum Director
3.	Dr. Shahid Saeed	Professor Physiology	Coordinator Block-IV
4.	Prof. Dr Raheela	Assoc. Professor Oral Biology	Coordinator Block-V
5.	Dr. Rabia Asad	Professor Community Dentistry	Coordinator Block-VI
Module Team			
6.	Dr. Shahid Saeed	Professor Physiology	Member
7.	Dr Saveela Sadaqat	AP Biochemistry	Member
8.	Dr. Uzma Riaz	Professor Pharmacology	Member
9.	Dr Shmasa Mohsin	Professor Anatomy	Member
10.	Dr. Rabia Asad	Professor Community Dentistry	Member
11.	Dr Shamsa Mohsin	Professor Anatomy	Member
12.	Dr. Zahid	Professor Microbiology	Member
13.	Dr. Sobia Siddique	Professor Oral Pathology	Member
14.	Dr. Zenab Yaasir	Professor Dental Materials	Member
15.	Dr Ahmed Mehmood	Associate Professor Behavioral Science	Member
16.	Dr. Rabeet Asif	DME	Proof reading & Editing
17.	Dr. Nivish	DME	Developer Block-IV

INTRODUCTION TO STUDY GUIDE

It is an aid to Inform students how student learning program of the module has been organized, to help students organize and manage their studies throughout the module and guide students on assessment methods, rules and regulations.

The Study Guide:

1. Communicates information on organization and management of the module.
2. This will help the student to contact the right person in case of any difficulty.
3. Defines the objectives which are expected to be achieved at the end of the module.
4. Identifies the learning strategies such as lectures, small group teachings.

Module Outcomes:

5. Provides a list of learning resources such as books, computer-assisted learning programs, web links, and journals, for students to consult in order to maximize their learning.
6. Highlights information on the contribution of continuous on the student's overall performance.
7. Includes information on the assessment methods that will be held to determine every student's performance.

Achievement of Objectives:

Focuses on information pertaining to examination policy, rules and regulations

Students will experience an integrated curriculum.

Integrated Curriculum:

An integrated curriculum is all about making connections, whether to real life or across the disciplines, about skills or about knowledge. An integrated curriculum fuses subject areas, experiences, and real-life knowledge together to make a more fulfilling and tangible learning environment for students. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to have better understanding of basic sciences when they repeatedly learn in relation to clinical examples. Case based discussions, computer-based assignments, early exposure to clinics, wards, and skills acquisition in skills lab are characteristics of integrated teaching program.

TEACHING AND LEARNING STRATEGIES

The following teaching / learning methods are used to promote better understanding:

1. Interactive Lectures
2. Small Group Discussion
3. Practical
4. Skills session in skill labs
5. Case-Based Learning (tutorials)
6. Directed Self-Learning

- **Interactive lectures:**

An interactive lecture is an easy way for instructors to intellectually engage and involve students as active participants in a lecture - based class of any size.

- **Small group discussion (SGD):**

Students learn from each other. Everyone gets more practice at expressing their ideas. A two-way discussion is almost always more creative than individual thoughts. Social skills are practiced in a 'safe' environment e.g. tolerance, cooperation.

- **Skills session:**

Skills relevant to respective module are observed and practiced where applicable in skills laboratory or Laboratories of various departments.

- **Case Based Learning (CBL):**

A small group discussion format where learning is focused on a series of questions based on a clinical scenario. Students discuss and answer the questions by applying relevant knowledge gained previously in clinical and basic health sciences during the module and construct new knowledge. The CBD will be provided by the concerned department. It is an active learning & teaching strategy which promotes application of foundational knowledge in relevant clinical scenarios.

- **Directed Self-learning (DSL):**

Directed Self-learning, which involves studying with indirect supervision in a classroom/Library, is a valuable way to learn and is quickly growing in popularity among parents and students.

Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Centre, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self-study.

BLOCK-VI

Sr. No.	MODULES	WEEKS
1-	Occlusion III	4
2-	Community Dentistry & Public Health II	4
3-	Respiration	5
	Total	13 Weeks

OCCLUSION -III**Specific Learning Objective:**

THEORY				
ORAL BIOLOGY & TOOTH MORPHOLOGY				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Facial Growth, Facial Types, and Occlusal Parameters	Identify and describe various facial types and profiles,	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Concept of Oral Health and Disease	Compare morphological and anatomical differences between male and female faces.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Explain the basic concepts of facial growth and bone remodeling.	LGIS (Lecture Hall 2)	C2	
PROSTHODONTICS				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Articulators: Types, Uses, and Limitations	Define articulation Identify the types of articulators, explaining their uses and limitations in tooth setup	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
ORTHODONTICS				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels	Assessment

			C/P/A	
Normal Occlusion and Key Characteristics	Define occlusion and normal incisor, canine, and first molar relationships, overjet, and overbite.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Malocclusion — Definitions, & Classification	Define and differentiate between normal occlusion and malocclusion.		C1	MCQs, OSPE, OSVE
	Classify different types of malocclusions using Angle's classification system.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE

OPERATIVE DENTISTRY

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Principles and Steps of Class II Cavity Preparation	Describe the principles of Class II cavity preparation, including indications, outline form, resistance and retention	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	instrumentation, and the rationale for each step in relation to tooth morphology and caries progression.			MCQs, OSPE, OSVE
Application of Liners and Bases in Cavity Preparation	Enlist steps of applying liners & bases in a prepared cavity	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Identification of Occlusal High Spots	Enlist the features that indicate an occlusal high spot.	LGIS (Lecture Hall	C1	MCQs, OSPE, OSVE

		2)		
Complications of Unadjusted Occlusal High Spots in Restorations	Enlist the complications that may arise due to unadjusted occlusal high spots in restorations.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Matrix system	<ol style="list-style-type: none"> 1. Define a matrix system and explain its role in Class II restorations. 2. Enlist the components of a matrix system (matrix band, retainer, wedge). 3. Identify the types of matrix systems used in operative dentistry: <ul style="list-style-type: none"> • Tofflemire (Universal matrix) • Ivory matrix • Sectional matrix system (introductory level) • Automatrix system 	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
			C3	
Wedges	<ol style="list-style-type: none"> 1. Explain the functions of wedges in Class II restorations. 2. Discuss the consequences of improper matrix or wedge placement, such as: 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

	<ul style="list-style-type: none"> • Open proximal contacts • Gingival overhangs • Poor contour and marginal leakage 			
SCIENCE OF DENTAL MATERIALS				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
	Identify and classify non-elastic impression materials and discuss their composition, properties, setting reactions and uses.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Non-Elastic Impression Materials	Evaluate the advantages and disadvantages of non-elastic impression materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe and differentiate between mucostatic, mucocompressive, and selective pressure techniques for complete denture impressions.	LGIS (Lecture Hall 2)		MCQs, OSPE, OSVE
Relining, and Rebasement Materials	Explain and evaluate the concept of relining and rebasing dentures, including indications.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Identify different types of relining and rebasing materials and describe their composition and indications for clinical use.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

	Define the role of tissue conditioners as short term denture soft liner	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Separating Media	Identify and classify the various separating media used in dental laboratory procedures.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Explain the purpose and mechanism of separating media in preventing material adhesion during processing.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe the composition, manipulation, and clinical relevance of commonly used separating media.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Cast Metals, Alloys	Enlist the significance of crystalline structure, solid solution, and eutectic alloys in determining the properties of dental metals.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Identify and describe key mechanical and physical properties required in dental casting alloys.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Classify and describe noble metal casting alloys and their uses in fixed and removable prosthodontics.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Compare base metal casting alloys (Ni-Cr, Co-Cr, Ti-based) in terms of physical properties, biocompatibility, and indications.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Investment Material and Casting Procedures	Define investment materials and classify them based on composition and application.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the components of gypsum-bonded, phosphate-bonded, and silica-bonded investment materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the functions of investment materials in the dental casting process.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Define setting and thermal expansion in investment materials	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the desirable properties of dental investment materials.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe and sequence the steps in the dental casting procedure from pattern fabrication to finishing.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Identify different types and causes of porosity in dental castings.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Analyze the causes of common casting defects and suggest preventive measures.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Describe the design, types, and functions of sprue formers in dental casting.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain Principles of cutting,	LGIS	C2	MCQs, OSPE,

Finishing and polishing	grinding, finishing and polishing.	(Lecture Hall 2)		OSVE
	Identify significance of finishing and polishing procedures.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Compare two body and three body wear.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Define abrasion, erosion and air abrasion technology	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Enlist hazards of abrasive procedures	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Enumerate different types of abrasives and their uses in dentistry	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE

PRACTICALS / LAB WORK

PROSTHODONTICS

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Fabrication of Occlusal Rims	Construct occlusal rims on trial denture upper and lower base plates with appropriate dimensions and contours.	Practical lab	C3/P	OSPE

Articulation of Base Plates with Occlusal Rims	Mount upper and lower base plates with occlusal rims on semi-adjustable articulators	Practical lab	C3/P	OSPE
Setup of Upper Anterior Teeth	Arrange upper anterior teeth on the occlusal rim with proper alignment.	Practical lab	C3/P	OSPE
Setup of Lower Anterior Teeth	Arrange lower anterior teeth ensuring correct overbite, and overjet.	Practical lab	C3/P	OSPE
Setup of Upper Posterior Teeth	Arrange upper posterior teeth	Practical lab	C3/P	OSPE
Setup of Lower Posterior Teeth	Arrange lower posterior teeth to achieve proper intercuspation	Practical lab	C3/P	OSPE
Wax-Up, Carving, and Festooning	Perform wax finishing, carving, and festooning	Practical lab	C3/P	OSPE
Flasking and Dewaxing of Complete Dentures	Demonstrate correct flasking and dewaxing procedures for processing complete dentures.	Practical lab	C3/P	OSPE
Packing and Curing of Complete Dentures	Perform packing and curing of complete dentures using appropriate resin materials and curing cycles. Perform Denture finishing & polishing	Practical lab	C3/P	OSPE
OPERATIVE DENTISTRY				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Class II Cavity Preparation for Amalgam	Prepare a G.V. Black's Class II cavity on typodont for an amalgam	Practical lab	C3/P	OSPE

Restoration	restoration maintaining isolation.			
Matrix Band Placement	Place a matrix band correctly and stabilize it using a wedge to achieve proper gingival adaptation.	Practical lab	C3/P	OSPE
Wedge insertion technique	Demonstrate correct wedge insertion technique (direction, size, and position) on a typodont/phantom head model.	Practical lab	C3/P	OSPE
Application of Liners and Bases	Apply liners & bases in a prepared cavity	Practical lab	C3/P	OSPE
Amalgam Restoration Techniques: Trituration, Condensation, Carving, and Finishing	Restore a prepared Class II cavity on a typodont with dental amalgam, following proper techniques of trituration, condensation, carving, and finishing.	Practical lab	C3/P	OSPE
Assessment of completed restoration	Assess the completed restoration for gingival overhangs, marginal adaptation, and proximal contact after removal of the matrix and wedge.	Practical lab	C3/P	OSPE

SCIENCE OF DENTAL MATERIALS

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
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materials Non-elastic impression	Demonstrate and perform proper techniques for manipulation of non- elastic impression materials. <ul style="list-style-type: none">i. Impression compoundii. Zinc oxide Eugenol impression pastes	Practical lab	C2	OSPE
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COMMUNITY DENTISTRY & PUBLIC HEALTH – II

Specific Learning Outcomes:

THEORY				
COMMUNITY & PREVENTIVE DENTISTRY				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Oral health promotion	Define oral health promotion and outline its key principles	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Apply the principles of health promotion and disease prevention to design oral health strategies.		C2	
	Describe the five areas for action in the Ottawa Charter and illustrate each with oral health examples.		C2	
	List potential partners and community settings for oral health promotion activities		C1	
Dental Auxiliaries	Define dental auxiliaries, and describe their roles in oral health delivery systems	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Introduction to the health care system	Discuss the Primary Health Care (PHC) approach and explain the principles of the Alma-Ata Declaration.		C2	
	Outline factors influencing the development and evaluation of	C2		

	healthcare systems.			
	Describe the different components of a healthcare system		C2	
	Outline the criteria for evaluating healthcare systems		C2	
Quality assurance cycle	Define quality in healthcare and explain the quality assurance/audit cycle.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Discuss the models of access to healthcare and apply the concept practically in a dental setting.	LGIS (Lecture Hall 2)	C2	
Planning dental services	Define planning and explain the steps of the rational planning model for dental services.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe evaluation and its types, and identify the range of information needed for dental service planning.		C2	
	Define concepts of need		C1	
Financing oral health care	Outline the stages necessary in planning strategy.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the basic principles of health economics and outline payment and remuneration systems in oral health care.		C2	
	Explain the Health goals of a program		C2	

Problem with health care services and health care system	Describe common problems with healthcare delivery	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Discuss different barriers to dental care reception		C2	
	Define the terms access to care /and barriers to care		C1	
	Outline how the barriers to care might be overcome for disadvantaged groups		C2	
Dental Public Health	Define determinants of health and equality	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the educational process with its domains		C2	
	Explain the concept of educational theories/ models		C2	
	Define Oral health education, its settings, and approaches		C1	
Oral	Describe the objectives of oral health education	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Identify principles of oral health education		C1	
	Explain the steps in planning Oral Health Education		C2	
	Discuss the three levels of prevention of oral diseases		C2	

Health Education	Discuss the health care system and the levels of prevention per Pakistani system		C2	
PSYCHIATRY & BEHAVIORAL SCIENCES				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Intelligence and dental practice	Explain how intelligence impacts clinical work in dentistry.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe application of practical approaches to strengthen emotional intelligence using cognitive abilities effectively in dental settings.		C2	
Factors Affecting Personality and Intelligence	Describe how genetic, environmental, and social factors shape personality and intelligence.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the interplay of nature and nurture in shaping behaviors and characteristics of dental professionals and patients.		C2	
Learning Theories and Behavior Change	Define learning principles and styles.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Apply learning theories to		C2	

	behavior change in clinical dental settings.			
Counseling Techniques in Dental Healthcare	Explain basic counseling principles.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Recognize the role of counseling in dental healthcare.		C2	
Motivation Theories and Applications	Define motivation and distinguish its types.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Apply motivational theories to improve student learning.		C2	
Psycho-Social Aspects of Disease	Describe psychological aspects of hospitalization.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Define palliative care and psychosocial support.		C1	
Family Dynamics and Health-Seeking Behaviors	Describe the various family structures and parenting styles and their key characteristics.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe key health belief models and the factors that influence help-seeking behaviors in dental settings.		C2	
Health Inequalities	Explain how social constructs shape perceptions, attitudes, and practices related to oral health.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Socioeconomic Impacts	Recognize health disparities and socioeconomic impacts on oral health.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE

Child Development and Adolescence	Describe cognitive and psychosocial development stages.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain challenges during puberty and adolescence.		C2	
Ageing and Dental Practice	Describe social, societal, and biological aspects of aging.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain implications for dental care in old patients.		C2	
Behavioral Influences on Oral Health Outcomes	Recognize how behavior affects oral health outcomes.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Explain strategies to promote healthy oral behaviors.		C2	
Treatment Adherence and Compliance	Describe factors affecting adherence.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the strategies to improve compliance in dental patients.		C2	
Medically Unexplained Oral Symptoms Management	Discuss the implications of somatic symptom disorders for diagnosis, communication, and management in dentistry.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

	Discuss the principles guiding the management of medically unexplained oral symptoms in dental practice.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Communication Skills in Dentistry	Explain the concepts of active listening and empathy.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Discuss how different questioning and communication approaches influence the quality of information gathered during patient-doctor interaction.		C2	

PRACTICALS / LAB WORK

COMMUNITY & PREVENTIVE DENTISTRY

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Oral Health Education	Deliver a short OHE message to classmates using lab models (tooth models, charts, typodonts).	Practical lab	P3/A2	OSPE
Levels of Prevention Classification	Classify example cases into primary, secondary, and tertiary prevention using different scenarios	Practical lab	C1/P	OSPE

PSYCHIATRY & BEHAVIORAL SCIENCES

Topic	Specific Learning Outcomes	Teaching Strategy	Levels	Assessment
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			C/P/A	
Intelligence (IQ & EQ) and Dental Practice	Identify variations in intelligence and emotional intelligence using written case scenarios and explain how communication should be adapted.	Practical lab	C3	OSPE
Nature vs Nurture	Differentiate nature and nurture factors in case scenarios and describe their effect on behavior and cooperation.	Practical lab	C3	OSPE
Recognizing Health Disparities & Social Inequalities	Analyze case scenarios to identify socioeconomic or social-construct- based influences on oral health.	Practical lab	C3	OSPE
Social Constructs & Their Influence on Oral Health	Evaluate cases showing social constructs (gender roles, stigma, norms) influencing oral health behavior.	Practical lab	C3	OSPE

RESPIRATION

Specific Learning Outcomes:

THEORY				
HISTOLOGY				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Microscopic Structure of Respiratory and Olfactory Epithelium	Identify the cells of respiratory epithelium and describe their functions.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Identify the cells of olfactory epithelium and explain their functions.		C3	
Trachea	Describe and identify the histological features of the trachea under microscope.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe the anatomical features and neurovascular supply of the trachea.		C2	
	Explain the anatomical basis and possible complications of tracheostomy.		C2	
PHYSIOLOGY				

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Introduction and Functional Anatomy	Describe the functional divisions of the respiratory system.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Differentiate between respiratory and non-respiratory functions of the respiratory system.		C3	
	Identify the layers of the respiratory membrane.		C3	
Introduction and Functional Anatomy	Discuss the mechanics of ventilation.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Identify the muscles of inspiration and expiration in quiet and strenuous breathing.		C3	
	Define interalveolar, intrapleural, and transpulmonary pressures and state their normal values during inspiration and expiration.		C1	
	Define and explain lung compliance and discuss factors affecting it.		C1	

	List the components of surfactant and explain its role in reducing alveolar surface tension.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Discuss the significance of surfactant in premature infants		C2	
	Define and describe normal lung volumes and capacities with their	LGIS (Lecture Hall 2)	C2	MCQs, OSPE,

Pulmonary Volumes, Capacities, and Ventilation	normal values.			OSVE
	Define and explain the types and functions of respiratory dead spaces, including the normal value of anatomical dead space.		C2	
	Define alveolar ventilation and minute respiratory volume.		C1	
	State the normal respiratory rate.		C1	
	Draw and interpret a spirogram showing respiratory excursions during normal, maximal inspiration, and maximal expiration.		C3	
	Define forced vital capacity (FVC), forced expiratory volume in one second (FEV ₁), and FEV ₁ /FVC ratio, and compare these values in normal and COPD patients		C1	
Gas Exchange and Diffusion	Describe the factors affecting gas diffusion through the respiratory membrane.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Define diffusing capacity for a gas.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Define partial pressure of a gas and state normal values of oxygen (O ₂) and carbon dioxide (CO ₂) in arterial and venous blood, as well as their partial pressures in atmospheric and alveolar air		C1	
	Explain the different forms of	LGIS (Lecture Hall 2)	C2	MCQs,

Transport of Gases Hemoglobin and Oxygen	oxygen transport in the blood.		C2	OSPE, OSVE
	Describe the mechanisms of carbon dioxide transport in the blood			
	Describe the structure and functions of hemoglobin, oxygen transport, oxygen dissociation curve, and factors that shift it.			
Neural and Chemical Control of Respiration	Identify and describe the components of the respiratory centers and explain their functions.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Discuss the inspiratory ramp signal and the Hering–Breuer inflation reflex.			

	Explain the chemical control of respiration.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE	
	State the normal arterial and venous partial pressures of O₂ and CO₂, and pH values.				C1
	Locate central and peripheral chemoreceptors and explain their roles in the regulation of respiration.				C1
Applied Physiology	Explain the effect of exercise on respiration.		C2		
	Define and classify different types and causes of cyanosis.				LGIS (Lecture Hall 2)

	Differentiate types of hypoxia and explain their effects on the body.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
	Explain the mechanism and effects of carbon monoxide poisoning.		C2	
	Differentiate sleep apnea, Cheyne–Stokes breathing, dyspnea, tachypnea, hypercapnia, asphyxia, and respiratory failure.		C3	

BIOCHEMISTRY

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Chemical Composition of the Human Body	Describe the major chemical components of the human body and explain their relative proportions.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Water and Its Biological Importance	Explain the importance of water in the human body.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Body Fluids	Define intracellular and extracellular fluids and describe their functions.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Ionization of Water	Describe the ionization of water and define the ion product constant (K_w).	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Acids and Bases	Differentiate between strong and weak acids with suitable examples.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

pH and Acid–Base Concepts	Explain the concepts of pH, pH scale, K_a, and pK_a.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
pH of Body Fluids	State the normal pH of various body fluids.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE

Sources of Acids	Identify the sources of volatile (CO_2) and fixed acids in the human body.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Determination of pH	Describe methods used for approximate and accurate determination of pH.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Effect of pH on Biomolecules	Explain the effects of pH on the structure and function of biological macromolecules such as enzymes, nitrogenous bases, and plasma proteins.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Titration Curve and Buffering Capacity	Interpret the titration curve of a weak acid with reference to buffering capacity.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Henderson–Hasselbalch Equation	Write the Henderson–Hasselbalch equation and describe its applications in physiology.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
pH Calculation	Calculate the pH of arterial blood using the Henderson–Hasselbalch equation.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

Alkali Reserve	Define alkali reserve and explain its physiological significance.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Buffer Systems	Define buffers and identify their components.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the factors determining buffering capacity.		C2	
	Explain the mechanism of action of a buffer system.		C2	
	List the principal buffers in various body fluids.		C1	
	Explain the mechanisms of the bicarbonate and phosphate buffer systems.		C2	
pH Regulation Mechanisms	Explain the respiratory mechanisms involved in homeostasis.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Defense Mechanisms in pH Regulation	Identify the first, second, and third lines of defense against changes in hydrogen ion concentration.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Acid–Base Imbalance	Classify acid–base disorders and describe their causes and compensatory mechanisms in: metabolic acidosis, respiratory acidosis, metabolic alkalosis, and respiratory alkalosis.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE

Introduction to Metabolism	Define metabolism and explain the concept of the metabolic map.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
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Anabolism vs Catabolism	Compare anabolic and catabolic pathways.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Biochemical Pathways and Reactions	Differentiate between biochemical cycles and pathways and between reversible and irreversible reactions, using suitable examples.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Glycolysis	Define glycolysis and describe its reactions, regulation, significance, and energy yield under aerobic and anaerobic conditions.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Clinical Correlation – Pyruvate Kinase Deficiency	Apply the knowledge of glycolysis to interpret clinical features of pyruvate kinase deficiency.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Lactic Acidosis	Identify the causes of lactic acidosis.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Pyruvate Metabolism	Describe the conversion of pyruvate into lactate, acetyl-CoA, oxaloacetate, alanine, and ethanol.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Pyruvate Dehydrogenase Complex	Elaborate the reaction catalyzed by the pyruvate dehydrogenase complex, highlighting the roles of E1, E2, and E3 components.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Citric Acid Cycle	Describe the reactions, regulation, and significance of the citric acid cycle, and calculate its total ATP yield.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Glycogen Storage Diseases	Apply the knowledge of glycogen metabolism to interpret the biochemical basis of glycogen storage diseases (Type Ia, Ib, II, III, V, and VI).	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Pentose Phosphate Pathway	Describe the oxidative and non-oxidative phases of the pentose phosphate pathway and identify the major product of each phase.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
NADPH and Cellular Function	Identify the reactions of the pentose phosphate pathway that yield NADPH and explain its major cellular uses.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
G6PD Deficiency	Explain the biochemical basis of hemolysis in glucose-6-phosphate dehydrogenase (G6PD) deficiency.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Comparison: PPP vs Glycolysis	Compare the pentose phosphate pathway with glycolysis in terms of function and products.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
ETC: Inhibitors, Uncouplers, and Energy Production	Identify the effects of ETC inhibitors and uncouplers on electron transport and ATP synthesis, and discuss their implications for cellular energy production.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

PHARMACOLOGY & THERAPEUTICS

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Cough and Its Management	Classify drugs used in the management of cough as antitussives, expectorants, and mucolytics.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Classify and describe mechanism of action for drugs used in the management of cough as antitussives, expectorants, and mucolytics.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Describe the pharmacological strategies for the treatment of asthma.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Enumerate the drugs used for	LGIS (Lecture Hall 2)	C1	MCQs,

Asthma	prophylaxis of asthma.			OSPE, OSVE
	Classify the drugs used in the treatment of asthma.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Explain the mechanism of action, clinical uses, and side effects of β_2 -adrenergic agonists used in asthma.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Describe the salient features and adverse effects of methylxanthines.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the pharmacological effects of antimuscarinic drugs, mast cell stabilizers, and leukotriene inhibitors in asthma management.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Elaborate on the anti-inflammatory effects of corticosteroids in asthma.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the pharmacological management of an acute asthma attack.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Recall the histamine receptor subtypes and describe their mechanisms of action.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Explain the pharmacological effects and potential indications of histamine.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Antihistamines	Enumerate the different types of histamine antagonists.		C1	
	Classify antihistamines.		C1	
	Discuss the pharmacology of H₁ antihistamines with emphasis on clinical uses, adverse reactions, and drug interactions.		C2	

	Differentiate between first- and second-generation H₁ antihistamines.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Antitubercular Drugs	Describe the different types of tuberculosis.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Enumerate the first-line and second-line antitubercular drugs.		C1	
	Explain the mechanism of action, clinical uses, and adverse effects of isoniazid and rifampicin.		C2	
	Explain the mechanism of action, clinical uses, and adverse effects of ethambutol and pyrazinamide.		C2	
	Enumerate the drugs and doses used for tuberculosis		C1	

prophylaxis.			
Describe the standard treatment regimen for new tuberculosis patients.		C2	
Enumerate the drugs used for resistant, MDR, and XDR tuberculosis.		C1	

PATHOLOGY

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Introduction to the Respiratory System	Explain the general overview of the respiratory system.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Respiratory tract Infections	Define upper respiratory tract Infections and lower respiratory tract Infections. Enlist various Respiratory tract Infections causing agents	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
Regulation of Breathing	Explain the control of breathing.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Asthma	Explain the mechanisms involved in asthma.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Upper Respiratory	Enumerate the common upper respiratory tract disorders, including	LGIS (Lecture Hall 2)	C1	MCQs, OSPE,

Tract Disorders	infections and sinusitis.			OSVE
Etiology of Upper Respiratory Tract Disorders	Describe the causes of upper respiratory tract disorders.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Oral Implications of URTIs	Explain the oral health implications of upper respiratory tract infections.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Lower Respiratory Tract Disorders	Enumerate major lower respiratory tract disorders, including chronic obstructive pulmonary disease (COPD) and cystic fibrosis.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
COPD	Classify chronic obstructive pulmonary disorders.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Differentiate the subtypes of COPD based on their pathological features.		C3	
	Describe the oral health implications of COPD, including dental caries, erosions, periodontal diseases, and candidiasis.		C2	
Pneumonia	Classify pneumonias into viral, bacterial, and hospital-acquired types.	LGIS (Lecture Hall 2)	C1	MCQs, OSPE, OSVE
	Explain the pathological features of pneumonias caused by human coronavirus.		C2	
	Describe the oral health considerations in pneumonias caused by human		C2	

	coronavirus.			
Common Bacterial Respiratory Tract Infections	<ul style="list-style-type: none"> • Describe the basic epidemiology and transmission of common bacterial respiratory tract pathogens. • Explain the key virulence factors and general pathogenesis of <i>Streptococcus pyogenes</i>, <i>Streptococcus pneumoniae</i>, and <i>Haemophilus influenzae</i>. • Outline the clinical significance of <i>Streptococcus pyogenes</i>, including immune-mediated complications. • Describe the basic principles of laboratory diagnosis of common bacterial respiratory infections. • Discuss general preventive measures, including vaccination and infection control practices. 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Atypical and Opportunistic Bacterial Respiratory Infections	<ul style="list-style-type: none"> • Differentiate between typical and atypical bacterial respiratory pathogens. Describe the epidemiology and modes of 	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE

	<p>transmission of atypical respiratory bacteria.</p> <ul style="list-style-type: none"> • Explain the basic pathogenic mechanisms of <i>Mycoplasma pneumoniae</i>, <i>Legionella pneumophila</i>, and <i>Klebsiella pneumoniae</i>. • Outline the general laboratory approaches used for identification of atypical respiratory pathogens. 		C2	
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	Discuss preventive strategies, including environmental and hospital-based infection control measures.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Hospital-Acquired and Opportunistic Infections	<ul style="list-style-type: none"> • Describe the epidemiology and clinical importance of <i>Pseudomonas aeruginosa</i> as an opportunistic pathogen. • Explain the major virulence factors and basic pathogenesis of <i>Pseudomonas aeruginosa</i>. • Outline the general principles of laboratory diagnosis of <i>Pseudomonas</i> infections. • Discuss the importance of infection control and prevention of hospital-acquired infections. 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Tuberculosis and Chronic Respiratory Infections	<ul style="list-style-type: none"> • Describe the epidemiology and transmission of <i>Mycobacterium tuberculosis</i>. • Explain the basic pathogenesis of tuberculosis. • Outline the concept of drug-resistant tuberculosis, including MDR-TB and XDR-TB. • Describe the general principles of laboratory diagnosis of tuberculosis. Discuss preventive measures, including public health strategies and • infection control. 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Viral Respiratory Infections of Public Health Importance	<ul style="list-style-type: none"> • Describe the epidemiology and modes of transmission of common viral respiratory infections. • Explain the basic pathogenesis of Influenza virus and SARS-CoV-2. Outline the general laboratory methods used for diagnosis of viral respiratory infections. • Discuss preventive strategies, including vaccination and standard infection control precautions. 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Viral Diseases with Oral and Salivary Gland Involvement	<ul style="list-style-type: none"> • Describe the epidemiology and transmission of measles and mumps viruses. • Explain the basic pathogenesis of measles and mumps infections. Identify common oral and salivary gland manifestations associated with these viral diseases. • Outline general laboratory diagnostic approaches for these viral infections. • Discuss preventive measures, including immunization 	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Granulomatous Lung Disorders	Describe granulomatous lung disorders such as tuberculosis, sarcoidosis, and Wegener's granulomatosis.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

	Identify the oral manifestations of granulomatous lung disorders.	LGIS (Lecture Hall 2)	C3	MCQs, OSPE, OSVE
Oral Lesions in Tuberculosis	Describe the oral manifestations specifically associated with pulmonary tuberculosis.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
Lung Cancer	Describe the pathological overview of lung cancer.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
	Explain the occurrence and features of jaw and oral cavity metastasis in lung cancer.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE

Dental Management in Respiratory Diseases	Describe general oral health considerations in patients with respiratory infections.	LGIS (Lecture Hall 2)	C2	MCQs, OSPE, OSVE
PRACTICALS / LAB WORK				
PHARMACOLOGY & THERAPEUTICS				
Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
General and Local Anesthetics: Routes of Administration and Pre-anesthetic Medications	Demonstrate the routes of administration for anesthetic agents and pre- anesthetic medications.	Practical Lab	C3/P	OSPE
Drugs Used in Bronchial Asthma	Write an appropriate prescription for the management of asthma and status asthmaticus.	Practical Lab	C3/P	OSPE
Antihistamines and Antiallergic Drugs	Write an appropriate prescription for the treatment of hay fever and allergic rhinitis.	Practical Lab	C3/P	OSPE
Antitussives and Expectorants	Write an appropriate prescription for the management of chronic cough.	Practical Lab	C3/P	OSPE
Antitubercular Drugs	Write an appropriate prescription for the treatment of tuberculosis.	Practical Lab	C3/P	OSPE

HISTOLOGY

Topic	Specific Learning Outcomes	Teaching Strategy	Levels C/P/A	Assessment
Trachea	Identify and illustrate the histological features of the trachea under light microscope	Practical Lab	C3/P	OSPE

PRISME

Sr. No.	Domain	Learning Outcomes
1.	Professionalism	<ul style="list-style-type: none"> ● Identify patients whose physical symptoms (in conditions like bruxism, TMJ issues, Muscle spasms, angina referral, etc.) may be stress-related and communicate this professionally and empathetically, offering appropriate initial management or referral. ● Develop coping strategies for managing stress in personal and professional life. ● Provide effective counseling to patients undergoing dental treatments. ● Develop therapeutic relationships with parents of pediatric dental patients.
2.	Research	<ul style="list-style-type: none"> ● Design and conduct a simple oral health survey following standardized steps. ● Describe data types, variables, statistical methods, sampling techniques, and present findings graphically Formulate clear, measurable research objectives for oral health research projects. ● Interpret and calculate various measures of data ● Correlate standard deviation with mean and the concept of normal distribution
3.	Informatics	<ul style="list-style-type: none"> ● Describe plagiarism & academic integrity issues
4.	Social Responsibility	<ul style="list-style-type: none"> ● Educate patients on managing periodontal conditions.

		<ul style="list-style-type: none"> ● Set realistic expectations for dental treatments. ● Promote healthy oral behaviors in community. ● Apply palliative care principles
5.	Management & Entrepreneurship	<ul style="list-style-type: none"> ● Identify errors and suggest improvements in lab or workflow. ● Demonstrate awareness of safety and quality measures in pre-clinical settings.
6.	Evidence Based Dentistry	<ul style="list-style-type: none"> ● Implement simple behavior-change strategies for routine dental problems (oral hygiene) ● Explain the basic principles of cognitive behavioral therapy (CBT) relevant to the management of dental anxiety.

CFR-C

Sr. No.	CFR-C	Teaching Strategy	Levels C/P/A	Assessment
1.	Waste Disposal in Dentistry	SGD (Skills Lab)	C3/P	OSPE/OSCE
2.	Sterilization & Disinfection	SGD (Skills Lab)	C3/P	OSPE/OSCE
3.	Needle Stick Injury	SGD (Skills Lab)	C3/P	OSPE/OSCE
4.	Prescription Writing	SGD (Skills Lab)	C3/P	OSPE/OSCE
5.	Measurement of Respiratory Rate	SGD (Skills Lab)	C3/P	OSPE/OSCE
6.	Inhaler and Spacer Use	SGD (Skills Lab)	C3/P	OSPE/OSCE

ASSESSMENT POLICY

BLOCK-VI								
Sr. No.	Theory			Practical				Total
1-	Occlusion III – 48 MCQs	48 MCQs	120 Marks	Practical Clinical Examination	06 OSPE (9 marks each)	06 Stations x 9 = 54 Marks	72 Marks	300 Marks
2-	Community Dentistry & Public Health II – 40 MCQs	42 MCQs			02 OSCE (9 marks each)	02 Stations x 9 = 18 Marks		
3-	Respiration – 32 MCQs	24 MCQs			08 OSVE (01 station - PRISME) (6 marks each)	08 Stations x 6 = 48 Marks	48 Marks	
Internal Assessment 10%			Internal Assessment 10%					

BLOCK EXAM TOTAL = 300 MARKS			
Theory Exam	120 Marks	Practical/Clinical Exam	120 Marks
Internal Assessment 10%	30 Marks	Internal Assessment 10%	30 Marks
Theory Exam = Internal Assessment	150 Marks	Practical/Clinical Exam + Internal Assessment	150 Marks

INTERNAL ASSESSMENT

It shall constitute 20% of the total assessment at the end of the academic year

	SCORING PARAMETER	WEIGHTAGE (PERCENTAGE)
Theory 10%	Attendance	75% attendance -1% >85% attendance -2%
	Block exam	5%
	Continuous assessment	3%
Practical 10%	Attendance	75% attendance -1% >85% attendance -2%
	Block Exam	5%
	Portfolio-Clinical Logbooks (CFRC,PRISME)	3%

Time Tables:

The timetables for the module will be shared via WhatsApp groups and the notice boards in advance.

ASSESSMENT TOOLS

In order to ensure transparency, validity, and reliability in student assessment, it is hereby notified that the following assessment tools shall be used as integral components of the BDS Assessment Program.

These assessment tools have been selected in accordance with the examination and assessment framework prescribed by University of Health Sciences Lahore

The following tools shall be employed for both **formative and summative assessments** of BDS students:

1. **Multiple Choice Questions (MCQs)** – to assess cognitive knowledge, clinical reasoning, and application of concepts.
2. **Short Answer Questions (SAQs)** – to evaluate analytical thinking, interpretation, and written expression of knowledge.
3. **Objective Structured Practical Examination (OSPE)** – to assess laboratory and practical competencies in basic and pre-clinical sciences.
4. **Objective Structured Clinical Examination (OSCE)** – to evaluate clinical skills, communication skills, professionalism, and patient-centered competencies.
5. **Objective Structured Viva Examination (OSVE)** – to assess conceptual understanding, clinical reasoning, and professional judgment through structured viva stations.

All HODs are directed to incorporate the above-mentioned tools in their internal assessments, send-up examinations, and professional examination preparation processes.

LEARNING RESOURCES FOR STUDENTS

ANATOMY

- Color Atlas of Anatomy by Mc Minn
- Clinically Oriented Development Anatomy by K. L. Moore
- Anatomy for Dental Students by D. R. Johnson & K. L. Moore
- Clinical Neuroanatomy by R. Snell
- High Yield Neuroanatomy by James D Fix
- Last's Anatomy by R.M.H. McMinn
- Cunningham's Manual of Practical Anatomy
- Gray's Text Book of Anatomy
- Text Book of Anatomy by Hamilton
- Langman's Medical Embryology by Thomas W. Sadler

HISTOLOGY

- Colour Textbook of Histology (2nd Ed) 2001. Gartner & Hiatt. Published by Saunders. ISBN 0721688063
- Basic Histology (10th Ed) Junqueira, Carneiro Contopoulos. Published by Appleton & Lange. ISBN 0838503764
- Essential Histology (1993 Ed. Rev.) Published by Lippincott. ISBN 0397510624
- Wheater Functional Histology Text & Colour Atlas (4th Ed) 2000. Wheater, Burkitt, Young & Heath. Published by Churchill Livingstone. ISBN 0443056129
- Atlas of Functional Histology 1999 Kerr. Published by Mosby ISBN 0723430721
- Human Histology (2nd Ed) 1996 Stevens & Lowe. Published by Mosby. ISBN 0723424853

PHYSIOLOGY

- Textbook of Medical Physiology (10th Ed) Sept.2000 Guyton. Published by Saunders. ISBN 072168677X.
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- Review of Medical Physiology (20th Ed) 2001 Ganong. Published by Appleton & Lange. ISBN 0838582826
- Physiology (2nd Revised Ed) 1998 Linda S Costanzo. Published by W B Sanders, ISBN 0721666116
- Lecture Notes on Human Physiology (4th Ed) Bray JJ, Cragg, PA, MacKnight ADC, Mills RG & Taylor D W. Published by Blackwell, ISBN 0865427755.
- Human Physiology (8th Ed) 1998. Vander, Sherman & Luciano. Published by McGraw Hill. ISBN 0071182543
- Principles of Physiology (3rd Ed)2000 Berne RM & Levy MW. Published by Mosby (HBJ). ISBN 0-323-00813-5
- Physiology (4th Ed) 1998. Berne R M & Levy M W. Published by Mosby (HBJ). ISBN 0815109520.
- Guyton and Hall - Physiology Review (MCQ Book)

BIOCHEMISTRY

- Lippincott's illustrated Reviews, Biochemistry
- Basic and Applied Dental Biochemistry by Williams & Elliott Harper's Biochemistry
- Berg, Tymoczko & Stryer, 5th edition (2002). Biochemistry
- Essentials of Medical Biochemistry Vol 1,2 by Mushtaq Ahmed

ORAL BIOLOGY & TOOTH MORPHOLOGY

- Oral Histology Development, Structure & Function by Richard Ten Cate
- Orban's Oral Histology & Embryology by Orban
- Tooth Morphology by Fuller
- Wheeler's Atlas of Tooth Form by Wheeler
- Oral Physiology by Levalle

PATHOLOGY & MICROBIOLOGY

- Robbins & Cotran Pathologic Basis of Disease

- Review of Medical Microbiology and Immunology by Levinson
- Textbook of Pathology by Walter & Israel

COMMUNITY & PREVENTIVE DENTISTRY

- Textbook of Preventive and Community Dentistry by S.S. Hiremath
 - Community Oral Health by Cynthia Pine & Rebecca Harris
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