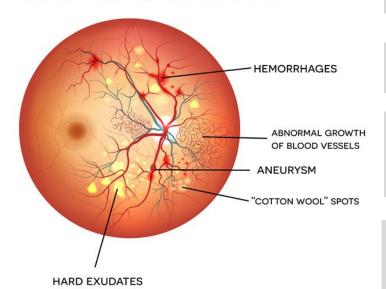
## DIABETIC RETINOPATHY

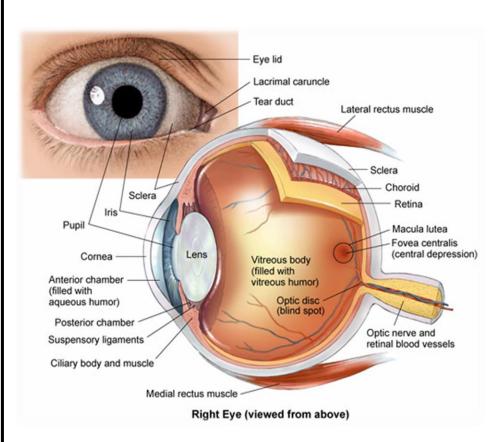


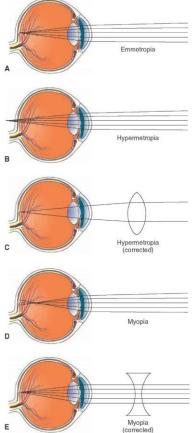
# **STUDY GUIDE**

**OPHTHALMOLOGY MODULE** 

# FOURTH YEAR MBBS SEMESTER 8

23<sup>rd</sup> April – 12<sup>th</sup> May 2018 Duration: 3 weeks







LIAQUAT NATIONAL HOSPITAL & MEDICAL COLLEGE



# **STUDY GUIDE FOR OPHTHALMOLOGY MODULE**

S.No	No CONTENTS			
1	Overview	3		
2	Introduction to Study Guide	4		
3	Learning Methodologies	5		
4	Module 1: OPTHALMOLOGY	9		
4.1	Introduction	10		
4.2	Objectives and Learning Strategies	10		
4.3	Objectives for Task Oriented Learning	16		
5	Learning Resources	18		
5.1	Additional Learning Resources	19		
6	Assessment Methods	20		
7	Modular Examination Rules and Regulations (LNMC)	22		
8	Semester Examination Rules and Regulations of JSMU			
9	Schedule	25		
10	Appendix: A	26		
11	Appendix: B	27		

Module name: Ophthalmology

Semester: **Eight** Year: **Four** Duration: 3 **weeks (April – May 2018)** 

Timetable hours: Lectures, Case-Based Discussion (CBD), Clinical Rotations, Task Oriented

Learning, Task Presentation, Demonstrations, Skills, Self-Study

#### MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	Dr. Abdul Hameed Siddiqui (Assistant Professor Eye)	
CO-COORDINATORS:	Dr. Sobia Ali (Assistant Professor DHCE)	

#### **DEPARTMENTS' & RESOURCE PERSONS' FACILITATING LEARNING**

BASIC HEALTH SCIENCES	CLINICAL AND ANCILLARY DEPARTMENTS	
ANATOMY	OPHTHALMOLOGY	
<ul> <li>Professor Zia-ul-Islam</li> <li>Professor Masood Ahmed</li> </ul>	<ul> <li>Prof. Imran Ghayoor</li> <li>Dr. Munira Shakir</li> <li>Dr. Abdul Hameed Siddiqui</li> <li>Dr. Azam Ali</li> <li>Dr. Ata-Ur-Rehman</li> <li>Dr. Muhammad Khalid Bamba</li> </ul>	
PATHOLOGY	RESEARCH & SKILLS DEVELOPMENT CENTER	
Professor Naveen Faridi	Dr Kahkashan Tahir	
PHYSIOLOGY		
Professor Syed Hafeez-ul-Hassan		

#### **DEPARTMENT of HEALTHCARE EDUCATION**

- Professor Nighat Huda
- Dr. Mirza Aroosa Beg
- Dr. Sobia Ali

- Dr. Afifa Tabassum
- Dr. M. Suleman Sadiq
- Dr. Mehnaz Umair

#### **LNH&MC MANAGEMENT**

- Professor Amir Ali Shoro, Dean & Principal, Director FHS LNH&MC
  - Dr. Shaheena Akbani, Controller A.A & R.T LNH&MC

#### **STUDY GUIDE COMPILED BY:**

- Dr. Sobia Ali, Assistant Professor, Department of Health Care Education
- Dr. Muhammad Suleman Sadiq, Lecturer III, Department of Health Care Education

#### **INTRODUCTION**

#### WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how student learning program of the semester-wise module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules and regulations

#### THE STUDY GUIDE:

- Communicates information on organization and management of the module.
   This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings, clinical skills, demonstration, tutorial and case based learning that will be implemented to achieve the module objectives.
- Provides a list of learning resources such as books, computer assisted learning programs,
   web-links, journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous and semester examinations on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's achievement of objectives.
- Focuses on information pertaining to examination policy, rules and regulations.

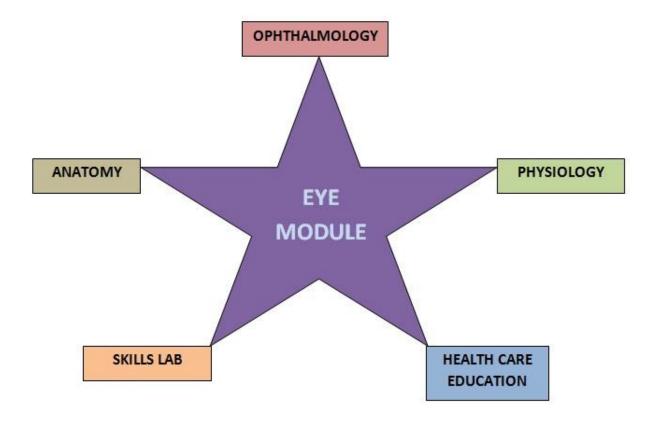
#### **CURRICULUM FRAMEWORK**

Students will experience *integrated curriculum* similar to previous modules of all 6 semesters. In 7<sup>th</sup> semester 49 students of group A and B will experience ENT and 48 of Group C and D will experience Eye. Similarly in 8<sup>th</sup> Semester the groups will reciprocate i.e the later 48 students will experience ENT and 49 will experience Eye.

**INTEGRATED CURRICULUM** comprises system-based modules such as Eye/ENT, Orthopedics and Reproductive System-II which links basic science knowledge to clinical problems. 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.

**LEARNING EXPERIENCES**: Case based integrated discussions, Task oriented learning followed by task presentation, skills acquisition in skills lab, computer-based assignments, learning experiences in clinics, wards.

# **INTEGRATING DISCIPLINES OF OPHTHALMOLOGY (EYE) MODULE**



#### **LEARNING METHODOLOGIES**

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

- Interactive Lectures
- Small Group Discussion
- Case- Based Discussion (CBD)
- Clinical Experiences
  - Clinical Rotations
- Skills session
- Task-Oriented Learning
  - o Task Presentation

**INTERACTIVE LECTURES:** In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

**SMALL GROUP SESSION:** This format helps students to clarify concepts, acquire skills or desired attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.

**CASE-BASED DISUCSSION (CBD)**: A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions 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 concern department.

**CLINICAL LEARNING EXPERIENCES:** In small groups, students observe patients with signs and symptoms in hospital wards, clinics and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

CLINICAL ROTATIONS: In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

**SKILLS SESSION:** Skills relevant to respective module are observed and practiced where applicable in skills laboratory.

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

#### **TASK ORIENTED LEARNING:**

#### What is Task Oriented Learning (TOL)?

In this module, objectives will be achieved by using multiple instructional strategies other than lectures only. **Task oriented learning** is being introduced to enhance students' learning and to get insight of the content necessary to move forward in to practical application of course materials. Students will be engaged in self directed learning as well as peers' collaboration and faculty led instructions

#### **PROCESS of TOL**

Learning in this strategy will comprises of two stages

Stage 1. Pre-class learning in groups

Stage 2. In-class group focused active learning

Stage 1	Stage 2
(Pre-Class	(In-Class)
Individual/group study and group presentation preparation	Group presentation and assessment by facilitator followed by Q/A session

#### **TOL process stage 1**:

Students will be divided in 6 groups (8-9 members in each group- **See Appendix: A**). Each week, students' group will be given task based on few objectives. These objectives are defined in this study guide. Students will have defined time slots for achieving the objectives. They will be required to study the recommended authentic website (patient education websites are strictly NOT ADVISED!!!) and work in groups to develop presentations during allotted study hours.

#### **TOL process stage 2**:

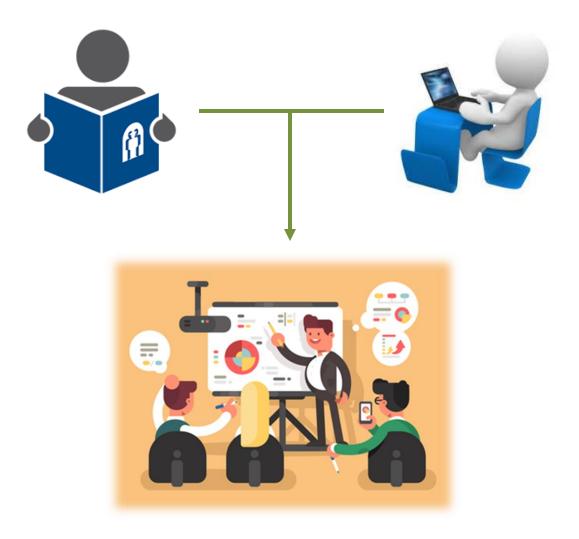
The groups will then be required to present their PPT/Prezi in class to show their understanding of subject matter.

## Time for group presentation:

Each presentation should not exceed 10 minutes followed by five minutes discussion

#### **Assessment**

The group presentations and collaborative work will be graded on defined criteria. (**See Appendix: B**). Each student is to demonstrate active participation and effective contribution during the group activities. It is mandatory for the students to participate in this activity as their scores will contribute to **internal evaluation**.



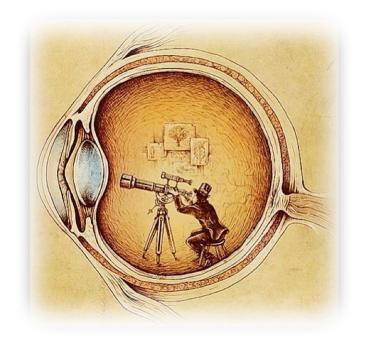
#### **SEMESTER 8 MODULE 1: OPHTHALMOLOGY**

#### **INTRODUCTION**

Examination of the eye and adnexa is an important part of the general examination of a patient. The eye may reveal a wide variety of systemic diseases common in the population. An understanding of the effects of eye disease is critical to holistic patient care.

Moreover at least 2.5% of Pakistan's population suffers from blindness out of which 80% cases can be treated through awareness. Major causes of blindness include Cataract, corneal disease and glaucoma <sup>1</sup>.

This module will address common ophthalmological complaints you will encounter in primary care settings and also a number of ophthalmological conditions whose early recognition and cure can lead to prevention in disability and blindness.



Dineen, B., Bourne, R.R., Jadoon, Z., Shah, S.P., Khan, M.A., Foster, A., Gilbert, C.E. and Khan, M.D., 2007. Causes of blindness and visual impairment in Pakistan. The Pakistan National Blindness and Visual impairment Survey. British Journal of Ophthalmology.

## **COURSE OBJECTIVES AND STRATEGIES**

By the end of Ophthalmology (Eye) module students should be able to:

ANATOMY			
Objectives	Teaching Strategy		
<ul> <li>Describe the functional anatomy of the orbit and the globe along with relevant nerve and blood supplies</li> <li>Discuss the embryology and histology of Retina</li> </ul>	Interactive Lectures		
PHYSIOLOGY			
Describe the process of normal vision, optics and the reflexes seen in normal eye	Interactive Lectures		
PATHOLOGY			
<ul> <li>Explain the pathology of the tumors involving eye including Basal Cell Carcinoma, Choroidal Melanoma, Squamous Cell Carcinoma and Retinoblastoma</li> </ul>	Interactive Lectures		
ORBIT			
<ul> <li>Diagnose Orbital cellulitis and Proptosis based on clinical features, pathophysiology and relevant investigations</li> <li>Develop treatment plans for Cellulitis and Proptosis</li> </ul>	Cased-Cased Discussion		

LIDS			
<ul> <li>Diagnose the following on the basis clinical findings, pathology and their investigations:         <ul> <li>Blepharitis</li> <li>Stye</li> <li>Chalazion</li> <li>Trichiasis</li> <li>Entropion</li> <li>Ectropion</li> <li>Ptosis</li> </ul> </li> <li>Explain the differential diagnosis and treatment plans for the above mentioned conditions</li> </ul>	Task Oriented Learning followed by task Presentation		
<ul> <li>Develop treatment plans for Basal cell, Squamous cell,</li> <li>Sebaceous carcinoma and Melanoma</li> <li>Describe clinical features for diagnosis of Nevus and Papilloma</li> </ul>			
CORNEA			
<ul> <li>Explain common corneal pathologies</li> <li>Diagnose the corneal trauma, infections, vitamin A deficiency and Keratoconus on the basis of clinical findings, pathophysiology and relevant investigations</li> <li>Explain the differential diagnosis and treatment plans for the corneal trauma, infections, vitamin A deficiency and Keratoconus</li> </ul>	Interactive Lecture		
CONJUNCTIVA			
<ul> <li>Diagnose Infective conjunctivitis, Allergic conjunctivitis and Pterygium on the basis clinical sign and symptoms and pathology</li> <li>Select the relevant investigations for the above mentioned conditions</li> <li>Discuss the differential diagnosis and treatment plans for infective conjunctivitis, allergic conjunctivitis and Pterygium</li> </ul>	Interactive Lecture		

SCLERA			
<ul> <li>Diagnose Episcleritis and Scleritis on the basis of clinical findings</li> <li>Discuss the relevant investigations, differential diagnosis, pathophysiology and treatment plans for Episcleritis and Scleritis</li> </ul>	Case-Based Discussion		
LACRIMAL APPARATUS			
<ul> <li>Diagnose Epiphora, Acute and Chronic Dacryocystitis on the basis of clinical features along with their relevant investigations and pathology</li> <li>Discuss the differential diagnosis and treatment plans for the Epiphora, Actute and Chronic Dacrocycstitis</li> </ul>	Task Oriented Learning followed by task presentation		
UVEAL TRACT			
<ul> <li>Discuss differential diagnosis for red eye along with their etiology, pathology, investigations and treatment plans</li> </ul>	Interactive Lecture		
<ul> <li>Diagnose Uveitis on the basis of clinical features and relevant investigations</li> <li>Discuss the differential diagnosis and treatment plans for Uveitis</li> </ul>	Case-Based Discussion		
LENS			
<ul> <li>Classify cataract</li> <li>Describe cataract due to systemic diseases</li> <li>Explain the symptoms, signs, investigations and management plan for congenital cataract</li> <li>Diagnose acquired cataract based on symptoms, signs, pathophysiology and investigation findings</li> <li>Justify selection of treatment options for acquired cataract</li> <li>Explain congenital cataract secondary to rubella</li> </ul>	Interactive Lectures		

GLAUCOMA		
<ul> <li>Define Glaucoma</li> <li>Classify glaucoma</li> <li>Discuss the anatomy related to glaucoma</li> <li>Discuss the etiology, patho-physiology, differential diagnosis and investigations for Glaucoma</li> <li>Diagnose angle closure Glaucome based on clinical findings</li> <li>Discuss the treatment plans for angle closure glaucoma</li> <li>Discuss the treatment plans for Glaucoma other than angle closure</li> </ul>	Interactive Lectures	
VITREO-RETINA		
Examine the fundus with the help of ophthalmoscope	Skills	
<ul> <li>Explain the signs, symptoms investigations and principles of management for posterior vitreous hemorrhage and Rhegmatogenous Retinal Detachment (RRD)</li> </ul>	Interactive Lecture	
<ul> <li>Discuss the retinal vascular diseases including central retinal vein occlusion (CRVO) and Central retinal artery occlusion (CRVA)</li> <li>Discuss the differential diagnosis, complications and treatment plans for CRVO/CRVA</li> </ul>	Task Oriented Learning followed by task presentation	
Discuss the clinical presentations, investigations and treatment options for Retinitis Pigmentosa, Retinoblastoma and Age Related Macular Degeneration (ARMD)	Case-Based Discussion	
<ul> <li>Discuss the pathology and clinical sign and symptoms of retinopathy of prematurity (ROP)along with the relevant investigation</li> <li>Discuss the complications and treatment plans for the ROP</li> </ul>	Interactive Lecture	

OPTIC NERVE			
<ul> <li>Discuss the differential diagnosis, pathology, provisional diagnosis, and investigations for Papilloedema, Optic Neuritis and Optic Atrophy</li> <li>Formulate the treatment plans for Papilloedema, Optic Neuritis and Optic Atrophy</li> </ul>	Interactive Lecture		
VISUAL PATHWAY			
Discuss the effects of lesions in the optic chiasma and visual pathway on visual field	Case-Based Discussion		
INJURIES			
<ul> <li>Classify injuries to the eye based on etiology</li> <li>Describe management plan for extra-ocular corneal and conjunctival foreign bodies</li> <li>Discuss the management plans for ocular burns and chemical injuries</li> <li>Develop management plans for all other types of injuries to the eye</li> </ul>	Interactive Lectures		
SQUINT AND AMBLYOPIA			
<ul> <li>Define Squint and Amblyopia</li> <li>Discuss the relationship between squint and amblyopia</li> <li>Discuss the clinical presentation of squint and amblyopia along with their differential diagnosis and relevant investigations</li> <li>Discuss principles of management for these two conditions</li> </ul>	Task Oriented Learning followed by task Presentation		
ERRORS OF REFRACTION			
<ul> <li>Define Emetropia, Myopia, Hypermetropia, Astigmatism,         Presbyopia, Aphakia, Pseudoaphakia and Anisometropia</li> <li>Discuss the etiology and corrective measures for each type of         error of refraction including the principles involved, use and         procedure of pin hole test</li> </ul>	Interactive Lecture		

#### **SYSTEMIC DISEASES**

- Discuss the effects of diabetes mellitus and hypertension eye and vision
- Based on data provided, diagnose diabetic and hypertensive retinopathy
- Discuss the patho-physiology of diabetic and hypertensive retinopathy
- Describe principles of management for the two above mentioned conditions
- Based on data provided, justify diagnosis, investigations and treatment plan for ocular conditions due to vitamin A deficiency
- Discuss the effects of abnormal thyroid hormone levels on eye and vision
- Diagnosis, investigations and treatment plan for conditions due to abnormal thyroid hormone levels (e.g. Grave's disease, Thyroid Ophthalmopathy)

Interactive Lectures

#### **BLINDNESS**

- Discuss the six most common causes of blindness worldwide according to WHO criteria
- Discuss etiology, preventive measures and principles of management for blindness

Interactive Lecture

Apart from attending daily scheduled sessions, students too should engage in self-study to ensure that all the objectives are covered



#### **Objectives for Task Oriented Learning (TOL)**

By the end of the session students should be able to:

#### Week 1:

#### LIDS

- Diagnose the following on the basis clinical findings and their investigations:
  - o Blepharitis
  - o Stye
  - Chalazion
  - Trichiasis
  - Entropion
  - Ectropion
  - o Ptosis
- Explain the differential diagnosis and treatment plans for the above mentioned conditions
- Develop treatment plans for Basal cell, squamous cell, Sebaceous carcinoma and Melanoma
- Describe clinical features for diagnosis of Nevus and Papilloma

#### **LACRIMAL APPARATUS**

- Diagnose Epiphora, Acute and Chronic Dacryocystitis on the basis of clinical features along with their relevant investigations
- Discuss the differential diagnosis and treatment plans for the Epiphora, Actute and Chronic dacryocystitis

#### Week 2

#### Task 1:

#### **VITREO-RETINA**

- Discuss the clinical sign and symptoms along with the relevant investigation for retinal vascular diseases including central retinal vein occlusion (CRVO) and Central retinal artery occlusion (CRVA)
- Discuss the differential diagnosis, complications and treatment plans for CRVO/CRVA

#### Week 2

#### Task 2:

#### **SQUINT AND AMBLYOPIA**

- Define Squint and Amblyopia
- Discuss the relationship between squint and amblyopia
- Discuss principles of management for these two conditions

#### Week 3

#### **DIABETES MELLITUS**

- Discuss the effects of diabetes mellitus on eye and vision
- Based on data provided, diagnose diabetic retinopathy
- Discuss the patho-physiology of diabetic retinopathy
- Describe principles of management for the above mentioned condition

## **LEARNING RESOURCES**

SUBJECT	RESOURCES		
ANATOMY	A. GROSS ANATOMY  1. K.L. Moore, Clinically Oriented Anatomy  B. EMBRYOLOGY  1. Keith L. Moore. The Developing Human  2. Langman's Medical Embryology		
COMMUNITY MEDICINE	1. Community Medicine by Parikh 2. Community Medicine by M Ilyas 3. Basic <i>Statistics</i> for the Health Sciences by Jan W Kuzma		
OPHTHALMOLOGY	TEXT BOOK  Vaughan & Asbury's General Ophthalmology, 18th Edition  WEBSITE: <a href="https://timroot.com/">https://timroot.com/</a>		
PATHOLOGY/MICROBIOLOGY	1. Robbins & Cotran, Pathologic Basis of Disease, 9th edition. 2. Rapid Review Pathology, 4th edition by Edward F. Goljan MD  WEBSITES: 1. http://library.med.utah.edu/WebPath/webpath.html 2. http://www.pathologyatlas.ro/		
PHYSIOLOGY	<ul> <li>A. TEXTBOOKS</li> <li>1. Textbook Of Medical Physiology by Guyton And Hall</li> <li>2. Ganong 'S Review of Medical Physiology</li> <li>3. Human Physiology by Lauralee Sherwood</li> <li>4. Berne &amp; Levy Physiology</li> <li>5. Best &amp; Taylor Physiological Basis of Medical Practice</li> </ul>		

## **ADDITIONAL LEARNING RESOURCES**

Hands-on Activities/ Practical	Practical Students will be involved in Practical sessions and hands-on activities that	
	link with the Eye Module to enhance learning.	
	Models available in the museum are a rich learning resource for quick	
<u>Museum</u>	review of anatomy and related educational activities	
	Skills acquisition in a simulated environment in the skills lab involving	
Skills Lab	experiential learning will ensure patient safety and will also help to build	
	confidence in approaching the patients	
	Videos and podcasts will familiarize the student with the procedures and	
<u>Videos/Podcasts</u>	protocol which they can watch and listen to at any time and wherever they	
	are, as part of task oriented learning	
	Students will use easily accessible internet resources with added time	
Internet Resources	flexibility to enrich and update their knowledge and its application	

#### **ASSESSMENT METHODS:**

#### Theory:

- Best Choice Questions (BCQs) also known as MCQs (Multiple Choice Questions) are used to asses objectives covered in each module.
- A BCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.
- Students mark their responses on specified computer-based/OMR sheet designed for LNHMC.

#### o EMQs:

- An EMQ has:
  - An option list of 5-15 which may be nerve supply, functions, diagnosis, investigations etc
  - A Lead In –Statement/Question
  - Two to four Stems or Clinical Scenarios
- For each stem or clinical scenario, the student should choose the most appropriate option from the option list.
- A single option can be used once, more than once or not at all.
- Correct answer carries one mark and incorrect 'zero mark'. There is NO negative marking.
- Student mark their responses on a specified computer-based sheet for EMQs.

#### **OSPE/OSCE: Objective Structured Practical/Clinical Examination:**

- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 12-25 stations.
- Each station may assess a variety of clinical tasks, these tasks may include history taking, physical examination, skills and application of skills and knowledge
- Stations are observed, unobserved, interactive and rest stations.
- Observed and Interactive Stations:
  - They will be assessed by internal or external examiners through structured viva or tasks.
- Unobserved Stattions:
  - It will be static stations in which there may be an X-ray, Labs reports, pictures, clinical scenarios with related questions for students to answer on the provided answer copy.
- Rest station

o It is a station where there is no task given and in this time student can organize his/her thoughts.

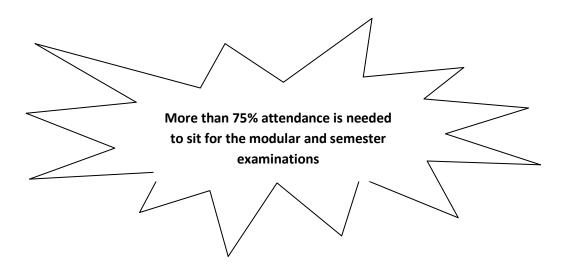
#### **LNHMC Internal Evaluation Policy**

- Students will be assessed to determine achievement of module objectives through the following:
- Module Examination: will be scheduled on completion of each module. The method of examination comprises theory exam which includes BCQs and OSPE (Objective Structured Practical Examination).
- **Graded Assessment of students by Individual Department**: Quiz, viva, practical, assignment, small group activities such as CBL, TBL, TOL, online assessment, ward activities, examination, and log book.
- Marks of both modular examination and graded assessment will constitute 20% weightage.
- As per JSMU policy, this 20% will be added by JSMU to Semester Examination.

Example: Number of JSMU Marks allocated for Semester Theory and Internal Evaluation			
Semester	Semester Examination Theory Marks	Internal Evaluation (Task Presentation + Assignments + Modular Eaam	Total (Theory)
	80%	20%	100%

#### **Formative Assessment**

 Individual department may hold quiz or short answer questions to help students assess their own learning. The marks obtained are not included in the internal evaluation



#### **MODULAR EXAMINATION RULES & REGULATIONS (LNH&MC)**

- Student must report to examination hall/venue, 30 minutes before the exam.
- Exam will begin sharp at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- Cell phones are strictly not allowed in examination hall.
- If any student is found with cell phone in any mode (silent, switched off or on) he/she will be not be allowed to continue their exam.
- No students will be allowed to sit in exam without University Admit Card, LNMC College ID Card and Lab Coat
- Student must bring the following stationary items for the exam: Pen, Pencil, Eraser, and Sharpener.
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

# <u>SEMESTER EXAMINATION RULES & REGULATIONS OF JINNAH SINDH MEDICAL UNIVERSITY</u> (JSMU)

- In one academic year there will be two semesters. The semester duration is approximately sixteen/seventeen weeks.
- Each semester may have two to three modules from two to eight weeks duration.

#### **JSMU EXAMINATIONS:**

- JSMU will schedule and hold Semester Examinations on completion of each semester.
- In one academic year, there will be two semester examinations and one Retake Examination.

#### MBBS Fourth year:

- Semester VII examination is scheduled on completion of EYE, Orthopedics and Reproductive System-II
  modules.
- **Semester VIII examination** is scheduled on completion of ENT/EYE, Dermatology, Plastic Surgery & Burns, Neuro-Sciences-II & Psychiatry, Genetics and Rehabilitation modules.

#### **Examination Protocols:**

- In each semester, module will be assessed by theory paper comprising MCQs and EMQs. For example semester 8 will have separate theory paper of EYE, Dermatology, Plastic Surgery & Burns, Neuro-Sciences-II & Psychiatry, Genetics and Rehabilitation modules.
- There will be one OSPE (Objective Structured Practical Examination)/OSCE (Objective Structured Clinical Examinations) which will cover all three modules of semester seven.

#### 1. Theory

- Theory paper will comprise of 80 one best type MCQs and 20 EMQs.
- Time duration for theory paper will be 120 minutes.
- Students will mark their responses on JSMU specified response sheets assessed by computer software.
- It will carry out 80% contribution in theory results of the Semester.
- There is no negative marking.

#### 2. OSPE/OSCE:

• It may comprise between 12- 25 stations. Each station will carry 10 marks.

#### 3. JSMU Grading System

• It will be based on GPA - 4 system

Marks obtained in Percentage range	Numerical Grade	Alphabetical Grade
80-100	4.0	A+
75-79	4.0	Α
70-74	3.7	А-
67-69	3.3	B+
63-66	3.0	В
60-62	2.7	B-
56-59	2.3	C+
50-55	2.0	С
<50 Un-grade-able	0	U

- A candidate obtaining GPA less than 2.00 (50%) is declared un-graded (fail).
- Cumulative transcript is issued at the end of clearance of all modules.

#### 4. Retake Examination

- Retake examination will be held after each semester examination as per meeting held on 12 April 2017 (Ref.No.JSMU/REG/2017/-314)
- Retake examinations are for those students who fail in semester examinations, and those who have
  passed semester examinations with GPA less than 3.0 may reappear in respective retake examination
  to improve grades.
- The format of the retake examination is exactly the same as in semester examinations.
- Retake examination will be conducted 3 weeks after declaration of results.

#### 5. Promotion to next class

- Students who pass both semester examinations are promoted from first year to second year.
- Students who fail the MBBS first year semester retake examination will be promoted to second year.
- Students will be promoted from **second year to third year and onward only** if they have passed the semester examinations of that year.
- Clearance of all modules and their components of semester one to four are mandatory for promotion from second year to third year (as per PMDC rules).
- As per PMDC rules any candidate failing to clear a module or its component in four (1+3) attempts is **NOT** allowed to carry out further medical education.
- Clearance of all modules and their components of semester/s are mandatory for promotion from third year onward.

## **SCHEDULE:**

WEEKS	4 <sup>th</sup> Year SEMESTER 7	MONTH		
WEEK 1		23 <sup>rd</sup> April 2018		
WEEK 2	ODUTUALMOLOGY			
WEEK 3	OPHTHALMOLOGY			
WEEK 4		11 <sup>th</sup> May 2018		
	MODULAR EXAM	12 <sup>th</sup> May 2018*		
WEEK 1	DERMATOLOGY	May 2018*		
WEEK 2	DERIMATOLOGY	May 2018*		
	MODULAR EXAM	May 2018*		
WEEK 1		June 2018*		
WEEK 2				
WEEK 3	NEUROSCEINCES II			
WEEK 4				
WEEK 5		July 2018*		
		July 2018*		
WEEK 1	GENETICS	July 2018*		
WEEK 2	GENETICS	August 2018*		
	MODULAR EXAM	August 2018*		
WEEK 1	REHABILITATION	August 2018*		
WEEK 2		Sept 2018*		
	MODULAR EXAM	Sept 2018*		
PREPARATORY LEAVE				
	SEMESTER EXAM			

<sup>\*</sup>Final dates will be announced later

### **APPENDIX: A**

Speaker/Group:

# LIAQUAT NATIONAL MEDICAL COLLEGE

# FOURTH YEAR MBBS, SEMESTER VIII ENT/EYE MODULE

**Criteria: Group Task Presentation** 

	Not Acceptable				
This criteria is designed to clarify the grading process for Group Oral Presentations		Poor	Average	Good	Excellent
		1	2	3	4
Content					
Objective were achieved during the presentation					
<ol><li>Information in presentation is clear and organized.</li></ol>					
<ol> <li>Material presented was derived from authentic sources</li> </ol>					
4. Queries answered appropriately					
Collaboration					
<ol><li>Every member of the group contributed to the presentation.</li></ol>					
<ol> <li>Smooth transition of group members from one presenter to another during presentation.</li> </ol>					
Presentation Style/ Professionalism					
7. Appropriate interaction with audience members.					
8. Readiness to present at scheduled time.					
9. Presentation completed within assigned time					
Marks obtained out of 36:  Facilitators' signature:,,					

## **APPENDIX B:**

SR.#	Roll. #	Name of Students	Sub Group	
Group-A				
1	MC/2020/001	Aatqua Nadeem		
2	MC/2020/002	Aisha Bibi		
3	MC/2020/003	Akash Kumar		
4	MC/2020/004	Akasha Haroon	A1	
5	MC/2020/005	Aliha		
6	MC/2020/006	Alizay Rehman		
7	MC/2020/007	Anees Mazhar		
8	MC/2020/009	Aqsa		
9	MC/2020/010	Arifa Bashir		
10	MC/2020/011	Arshia Siddiqua		
11	MC/2020/012	Asad Mehdi	A2	
12	MC/2020/013	Ayesha	AZ	
13	MC/2020/014	Ayesha Khan		
14	MC/2020/015	Bakhtawar Mubeen		
15	MC/2020/016	Bilal Yousuf		
16	MC/2020/017	Deepak Kumar		
17	MC/2020/018	Dhanwanti Devi		
18	MC/2020/019	Eraj Javed		
19	MC/2020/020	Faiza Faisal		
20	MC/2020/021	Faiza Raheem	A3	
21	MC/2020/022	Fariha Ejaz		
22	MC/2020/023	Fatima Suleman		
23	MC/2020/024	Fizzah Qamar		
24	MC/2020/025	Ganpat Kumar		

Group-B			
1	MC/2020/026	Gul Muhammad	
2	MC/2020/027	Hadiqa Sana	
3	MC/2020/028	Hafiz Ali Shabbir Rajput	
4	MC/2020/029	Hanesh Tanwani	B1
5	MC/2020/030	Haresh Kumar	ы
6	MC/2020/031	Hiba Rasheed	
7	MC/2020/032	Hina Javeria	
8	MC/2020/033	Hira Rafaqat	
9	MC/2020/034	Hunaiza Muhammad Siraj	
10	MC/2020/035	Iftikhar Ahmed	
11	MC/2020/037	Imran Khan	
12	MC/2020/038	Jai Parkash	B2
13	MC/2020/039	Jai Shankar	
14	MC/2020/040	Kainat Fatima	
15	MC/2020/041	Kanchan Kumari	
16	MC/2020/042	Kashmalla	
17	MC/2020/043	Khushbakht Rashid	
18	MC/2020/044	Kiran Zahid	
19	MC/2020/045	Laiba Amini	
20	MC/2020/046	Maham Atta	В3
21	MC/2020/047	Maira Hassan	<b>D</b> 3
22	MC/2020/049	Mehran Khan	
23	MC/2020/050	Mehroze Fatima	
24	MC/2020/051	Mirza Usman Baig	