OPHTHALMOLOGY

	Undergraduate Curriculum based on CE LHMC, UCMS &		***************************************			The second secon
	Department of Ophi		ξV.			
	Assessment Log book to be main	stained b	y the student	Militario (escue a secue de la secue d	***************************************	**************************************
S. No	Competency	Core skill	Type of Teaching	Level	Assessment	Integration
	Ity Assessment	·	······································			d
OP1.1	Describe the physiology of vision	Y	L(1)	KH	Tw/v	Physiology (V)
OP1.2	Define, classify and describe the types and methods of	T 7	L (2), SGD	KH	W/V	1113333067117
	correcting refractive errors		(1)	""		1
DP1.4	Enumerate the indications and describe the principles of	Y	L(1)	KH	Tw/v	
	refractive surgery	1	7 1-7		1	
JP1.5	Define, enumerate the types and the mechanism by which	Y	L(1)	KH	W/V	
	strabismus leads to ambiyopia		1.7		1 .,,,	
JP 1.3	Demonstrate the steps in performing the visual acuity	l _y	DOAP (1)	S/SH	logback	Visual acuity
	assessment for distance vision, near vision, colour vision, the	1	14,	", " .	1080000	assessment to
	pin hole test and the menace and blink reflexes				•	be certified
ld and ad	nexa, orbit		<u> </u>		4	L ne ceruneu
)P2.1	Enumerate the causes, describe and discuss the aetiology,	ΙY	L (3),	КН	T W/V	[A - A / / / /
2.15	clinical presentations and diagnostic features of common	'		l ou	1 VV/V	Anatomy (V)
	conditions of the lid and adnexa including Hordeolum		SGO (1)			-
	externum/ internum, blepharitis, preseptal cellulitis.		1			
	dacryocystitis, hemangioma, dermoid, ptosis, entropion, lid					
	lag, lagophthalmos		•			
P2.4	Describe the aetiology, clinical presentation. Discuss the	Ìу	1.791	КН	11101	
	complications and management of orbital cellulitis	1	L(1)	VL.	W/V	
)P2.5	Describe the clinical features on ocular examination and	ł.,	4			
	management of a patient with cavernous sinus thrombosis	¥		KH	W/V	
P2.6	Enumerate the causes and describe the differentiating		-			
47 m.es	commende the cames and describe the differentiating	Y	L(1), SGD	KH	W/V	
)P2.7	features, and clinical features and management of proptosis		(1)	,		
T 4.1	Classify the various types of orbital tumours. Differentiate the	Y	L (1), SGD	KH	W/V	
	symptoms and signs of the presentation of various types of		(1)	1		
P2.8	ocular tumours	ļ		<u></u>		
17 A-O	List the investigations helpful in diagnosis of orbital tumors.	γ	j L (1)	KH	w/v	
P2.2	Enumerate the indications for appropriate referral	ļ	ļ.			
ra.z	Demonstrate the symptoms & clinical signs of conditions	Y	DOAP (1)	5	Skill	
P2.3	enumerated in OP2.1	<u> </u>	ļ		assessment	Marie en
ra.3	Demonstrate under supervision clinical procedures	Y	DOAP (1)	SH	5kiil	
	performed in the lid including: bells phenomenon,		-		Assessment	
	assessment of entropion/ectropion, perform the					
	regurgitation test of lacrimal sac. massage technique in cong.				, i	
en en Bronnen managen.	dacryocystitis, and trichiatic cilia removal by epilation			Common Appares 15 control 15	la series de la companya de la comp	Minister region recommendation and the state of the state
onjunctive		i galantenanaka julijum,		ewawa manana ayanga	Manager and the second	
P3.3	Describe the aetiology, pathophysiology, ocular features,	Y	L(1),	KH	W/N	
	differential diagnosis, complications, and management of		SGD(1)			
A. A. ' 3	various causes of conjunctivitis			•		
P3.4	Describe the aetiology, pathophysiology, ocular features,	¥	L (2)	KH	W/V	9/2004-0
	differential diagnosis, complications and management of					
	trachoma.			1		
P3.5	Describe the aetiology, pathophysiology, ocular features,	Y	L(1)	KH	W/V	***************************************
	differential diagnosis, complications and management of					
	vernal catarrh	111				
P3.6	Describe the actiology, pathophysiology, ocular features,	Υ	L(1)	KH	W/V	a an annuga in en sej en en senten en senten en en en
	differential diagnosis, complications and management of					
·	pterygium				1.	
P3.7	Describe the aetiology, pathophysiology, ocular features,	Y		KH	W/V	:
	differential diagnosis, complications and management of				•	
	symblepharon				armanone are a second	-
P3.1	Elicit document and present an appropriate history in a	Y	DOAP [1]	SH	Skill	and the second s
	patient presenting with a "red eye" including congestion,				Assessment	
	discharge, pain				-100003811153111	
P3.2	Domonstrate document and present the correct method of	Y	DOAP (1)	SH	Skill	MARKET TO THE PARTY OF THE PART
	examination of a "red eye" including vision assessment,	'	mount [2]	רונ		
	availing with of 9 (60 eac incident aroun acceptation)				Assessment	

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OP3.8	Demonstrate correct technique of removal of foreign body	Υ	DOAP (1)	SH.	Skill	
OP3.9	from the eye in a simulated environment and Demonstrate				Assessment	OUR-18000
OP4.8	the correct technique of instillation of eye drops in a					***************************************
	simulated environment and Demonstrate technique of					1000000
	removal of foreign body in the cornea in a simulated					000
	environment (can be combined)	<u> </u>		<u> </u>		
Cornea	77		······································			***********
OP4.1	Enumerate, describe and discuss the types and causes of corneal ulceration	Y	L (1), SGD (1)	КН	W/V	Anatomy (V)
OP4.7	Enumerate the indications and describe the methods of tarsorraphy	Y		KH	W/V	OP4.7
OF4.2	Enumerate and discuss the differential diagnosis of infective keratitis	Y	L(1), SGD(1)	KH	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
OP4.3	Enumerate the causes of corneal edema	Υ	L(1),	KH	W/V	*******************************
OP4.6	Enumerate the indications and the types of keratoplasty	Y		KH	W/V	and the second state of the second
OP4,4	Enumerate the causes and discuss the management of dry eye	Y	L(1)	КН	W/V	
OP4.5	Enumerate the causes of corneal blindness	† v	L (1), SGD	KH	W/V	******************************
OP4,9	Describe and discuss the importance and protocols involved in eye donation and eye banking	İŸ	(1)	KH	W/V	
OP4.10	Counsel patients and family about eye donation in a	† 7	DOAP (1)	SH	Skill	
	simulated environment		including	~	Assessment	
dige.	•	-	role play		2	
Sclera	With the state of			·		
DP5.1	Define, enumerate and describe the aetiology, associated	ΙΥ	L(1)	KH	l w/v	Medicine (V)
	systemic conditions, clinical features complications		1			
•	Indications for referral and management of episcleritis	240				
OP5.2	Define, enumerate and describe the aetiology, associated	Y	1	КН	W/V	
	systemic conditions, clinical features, complications,			E a		
	indications for referral and management of scleritis					
iris and Ant	terior Chamber				· · · · · · · · · · · · · · · · · · ·	•
OP6.1	Describe clinical signs of intraocular inflammation and	ŢΥ	L(2), SGD	КН	W/V	MCCCCC ACCCCATCC CCCACCAGG ANN ANNACAG ANN ANN ANN ANN ANN ANN ANN ANN ANN A
	enumerate the features that distinguish granulomatous from		(1)			
	non-granulomatous inflammation. Identify acute iridocyclitis					
maniferencementation occurrence	from chronic condition	<u> </u>		<u></u>		
OP6.2	Identify and distinguish acute iridocyclitis from chronic iridocyclitis	¥		kH	W/V	
OP6.8	Enumerate and choose the appropriate investigation for patients with conditions affecting the Uvea	Y		KH	W/V	
OP6.3	Enumerate systemic conditions that can present as iridocyclitis and describe their ocular manifestations	¥.	i (1)	ΚH	W/V	Medicine (H)
OP6.4	Describe and distinguish hyphema and hypopyon	Y	SGD(1)	KH	W/V	
OP6.5	Describe and discuss the angle of the anterior chamber and	γ	L(3),	KH	W/V	
PRODUCTOR TO TO	its clinical correlates	ļ	SGD(1)	<u> </u>		
OP6.7	Enumerate and discuss the aetiology, the clinical	Y		KH	W/V	Anatomy (V)
	distinguishing features of various glaucomas associated with			9		
	shallow and deep anterior chamber. Choose appropriate investigations and treatment for patients with above			-		
	conditions.					
OP6.9	Choose the correct local and systemic therapy for conditions	Y	1.231	KH:	LIAFAF	
1 mr#W	of the anterior chamber and enumerate their indications.	,	1.(3)	r.Fi	W/V	
4.5	adverse events and interactions	•	Hill	T T T T T T T T T T T T T T T T T T T	LAXA AND AND AND AND AND AND AND AND AND AN	
OP6.6	Identify and demonstrate the clinical features and distinguish	T	DOAP (1)	SH	Skill	
	and diagnose common clinical conditions affecting the		1	, ~·· (Assessment	
	anterior chamber			weight)	* ************************************	•
OP6.10	Counsel patients with conditions of the iris and anterior	†γ	DOAP (1)	SH	Skill	
	chamber about their diagnosis, therapy and prognosis in an	Ì	1	w.(*	Assessment	
	empathetic manner in a simulated environment		1	· ·	Tropuspinging	
			·	L		
Lens						
Jens JP7.1	Describe the surgical anatomy and the metabolism of the tens	Y	L(1)	KH	W/V	Anatomy, (V)
	Describe the surgical anatomy and the metabolism of the lens Describe and discuss the aetio-pathogenesis, stages of	Y	L (1)	КН	W/V	Anatomy, (V) Biochemistry

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********************	maturation and complications of cataract		\$GD(1)			
OP7.4	Enumerate the types of cataract surgery and describe the steps, intra-operative and post-operative complications of	Y	L (1)	кн	w/v	
	extracapsular cataract extraction surgery.			<u></u>		
OP7.3	Demonstrate the correct technique of ocular examination in a patient with a cataract	Y	DOAP (1)	SH	Skill - Assessment	
OP7.5	To participate in the team for cotaract surgery	Y	DOAP (1)	SH	Skill Assessment /Logbook	,
OP7.6	Administer informed consent and counsel patients for	Y	DOAP(1)	SH	Skill Assessment	All Commences and Astronomy of the Commence of Astronomy
n	cataract surgery in a simulated environment		<u></u>	å		
Retina and t OP8.1	Discuss the aetiology, pathology, clinical features and management of vascular occlusions of the retina	γ	L (1)	KH	W/V	Anatomy, (V) Pathology
OP8.2	Enumerate the indications for laser therapy in the treatment of retinal diseases (including retinal detachment, retinal degenerations, diabetic retinopathy & hypertensive	Y	L (1)	K	W/V	
OP8.4	retinopathy) Enumerate and discuss treatment modalities in management	Y	L (2)	KH	W/V	4 400,000 4 - 922 200 200 100 100 100 100 100 100 100 1
OP8.5	of diseases of the retina Describe and discuss the correlative anatomy, aetiology, clinical manifestations, diagnostic tests, imaging and management of diseases of the optic nerve and visual	Y	1 (2), SGD	KI I	W/V	Pupil assessment to be certified
OP8.3	Demonstrate the correct technique of a fundus examination and describe and distinguish the funduscopic features in a normal condition and in conditions causing an abnormal retinal exam	Y	SGD (1)	SH	Skill Assessment	
Miscellaneo		<u> </u>				and the second s
OP9.2	Classify, enumerate the types, methods of diagnosis and indications for referral in a patient with heterotropia/	Y	1 (2)	KH	WN	
OP9.3	Describe the role of refractive error correction in a patient with headache and enumerate the indications for referral	Y	L (1)	K	W/V	Medicine (H)
OP9.4	Enumerate, describe and discuss the causes of avoidable blindness and the National Programs for Control of Blindness (including vision 2020)	Υ	L (1)	KH	W/V	en egunde en distribute e con empresa e conse e con esta e con est
OP9.5	Describe the evaluation and enumerate the steps involved in the stabilisation, initial management and indication for referral in a patient with ocular injury	Y	L(2)	КН	W/V	A STATE OF THE PROPERTY OF THE
OP9.1	Demonstrate the correct technique to examine extra ocular movements (Uniocular & Binocular)	٧	DOAP (1)	P	Skill Assessment	Performance certification required
Integrated (Classes					
With Anato	my modules (when they take these classes)					·
2.0E/A	Explain effect of pituitary tumours on visual pathway	N	L,SGD	KH	W/V	
AN31.3 AN31.5	Describe anatomical basis of Horner's syndrome Explain the anatomical basis of oculomotor, trochlear and	N Y	L,SGD L,SGD	KH	W/V W/V	
AN41.1	abducent nerve palsies along with strabismus Describe & demonstrate parts and layers of eyeball	Y	L/LD, DOAP	SH	W/V	-
AN41,2	Describe the anatomical aspects of cataract, glaucoma & central retinal artery occlusion	N	L,SGD	КН	W/V	
AN41.3	Describe the position, nerve supply and actions of intraocular muscles and extraocular muscles	N	L,5GD	KH	W/V	
With Physic	alogy modules (when they take these classes)	***************************************				do agricos por processor de servicio de composición de la composición del composición de la composició
PY10.17	Describe and discuss functional anatomy of eye, physiology of image formation, physiology of vision including colour vision, Refractive errors, colour blindness, Physiology of pupil and	Y	1,560	Kil	W/V	
PY10.18	light reflex Describe and discuss the physiological basis of lesion in visual pathway	İΥ	L.SGD	КН	W/V	ga jangan andahan semengan pemerihkan sempa semper

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PY10.19	Describe and dis						
PY10.20	Describe and discuss auditory & visual evoke potentials Demonstrate testing of visual acuity, colour and field of vision in volunteer/ simulated envisors.	ŢΥ	1.SGD	KH	I W/V	· · · · · · · · · · · · · · · · · · ·	· Carrette and
With Patholo	in volunteer/simulated environment legy modules (when they take these classes)	Y	L, DOAP	P	Skill		
	The CHORDY POSSESS AND THE PROPERTY OF THE PRO			1	Assessment		_
	cology modules (when they take these of retinoblastoma	N	L.5GD	KH	W/v	The state of the s	
PH1.58 With General	Ocscribe drugs used in Ocular disorders	l v			1	***	_
	Medicine modules (when they take these classes) Describe and discuss the actiopathogenesis, clinical presentation, identificant	L.T	I L, SGD	KH	[W/V		1
		Y	L, SGD	КН	W/V		1
	stabilization, management and rehabilitation of vision and visual loss in the elderly						
							1

III PROF. M.B.B.S. PART I

OPHTHALMOLOGY

TEMPLATE OF THEORY EXAMINATION PAPER

Background

In exercise of the powers conferred by Section33of the Indian Medical Council Act, 1956 (102 of 1956), the Board of Governors in super-session of Medical Council of India with the previous sanction of the Central Government, have amended the "Regulations on Graduate Medical Education, 1997", by the Regulations which may be called the "Regulations on Graduate Medical Education (Amendment), 2019". Competency based curriculum of the Indian Medical Graduate programme has been implemented for MBBS course starting from academic year 2019-20 onwards. The Regulations have come into force since their publication in the Official Gazette on 4th November 2019.

Salient features of the sub-section on University Examinations of the Regulations on Graduate Medical Education (Amendment), 2019 regarding Theory examination

(Reference: Gazette of India. BOARD OF GOVERNORS IN SUPER-SESSION OF MEDICAL COUNCIL OF INDIA AMENDMENT NOTIFICATION dated the 4th November, 2019. Chapter VI, sub-section 11.2)

Chapter VI of the Regulations on Graduate Medical Education (Amendment), 2019 deals with the Assessment under the Competency based curriculum, and the sub-section 11.2 deals with the University Examinations. It is mentioned that University examinations are to be designed with a view to ascertain whether the candidate has acquired the necessary knowledge, minimal level of skills, ethical and professional values with clear concepts of the fundamentals which are necessary for him/her to function effectively and appropriately as a physician of first contact. Assessment shall be carried out on an objective basis to the extent possible.

Nature of questions will include different types such as structured essays (Long Answer Questions -LAQ), Short Answers Questions (SAQ) and objective type questions (e.g.Multiple Choice Questions - MCQ). Marks for each part should be indicated separately. MCQs shall be accorded a weightage of not more than 20% of the total theory marks

There shall be one main examination in an academic year and a supplementary to be held not later than 90 days after the declaration of the results of the main exam. In Ophthalmology, there will be theory paper of 100 marks. At least one question in the paper of the clinical specialties should test knowledge - competencies acquired during the professional development programme (AETCOM module).

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Template for Theory examination paper

One theory paper with topic-wise distribution as per the syllabus approved by FMS, University of Delhi. Paper of 100 marks to be as per the following template:

Table: Template of theory paper of 100 marks

Part	Type of question	Number of questions	Marks per question	Total marks
A	MCQ	20	1	20
В	LAQ	1	16	16
-	SAQ*	2	8	16
C	LAQ	1	16	16
	SAQ	1	- 8	8
D	LAQ	1	16	16
	SAQ	1	8	8
			Total marks	100

^{*} The second SAQ of the Part B will be from AETCOM module

The marks distribution across the four parts of the each theory paper will be as per the following template:

Table: Marks distribution by parts in the theory paper

Marks distribution by Part	Allotted marks
PART A	20
PART B	32
PART C	24
PART D	24
Total marks	100

Notes regarding the template for Theory examination paper

- The theory papers will be of 100 marks.
- Duration of paper will be 3 hours (including maximum 20 minutes for the MCQs paper)
- Part A (MCQs) is to be attempted on the provided question paper itself.
- Part B, C and D are to be answered in separate answer-sheets.
- Part A question paper is to be detached and returned back after 20 minutes of the start of the examination.
- Learner is to write his/her roll number on the top on both the MCQ question paper and the LAQ, SAQ question paper immediately on receipt.

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Parts

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Only blue/black ink is to be used for attempting the paper including the MCQ section.
 Use of pencil is only allowed for diagram/graphs.

MCQs:

- Each of the 20 questions will be of single best answer type, where the learner is to indicate the single correct or best answer among the four given options.
- The MCQs can include questions on 'match-the-correct-options', 'correct sequence', clinical scenarios etc. but options to be worded as choosing single correct/best answer.
- Each question will have a stem of the question followed by four choices labelled as A, B, C and D.
- At the end of each MCQ, a square box will be provided where the learner is to indicate his/her answer by writing a single option (among A, B, C or D) within the square box.
- An option choice once indicated within the box is not allowed to be changed. Any scratching, scribbling, overwriting or change of the indicated choice within the box, will be considered as a wrong response.
- There shall be no negative marking for the MCQs, and one mark will be awarded for each correctly answered question.

Long Answer Questions (LAQ)

- Each LAQ is to be framed with objective smaller sub-parts, indicating clearly marks for each sub-part.
- Each LAQ to preferably be divided into 2-4 sub-parts.
- All the sub-parts within one LAQ to preferably be linked by theme or topic, they should not be unrelated to each other.

Short Answer Questions (SAQ)

- The SAQ can comprise of questions on writing short notes on specific topics, differences between two terms, drawing a schematic diagram etc.
- The second SAQ within part B of each of the two theory papers will be specifically from AETCOM topic.

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Annexure: Sample template of a theory paper

III PROF. M.B.B.S. PART I(ANNUAL / SUPPLE)

OPHTHALMOLOGY

PAPER

Maximum marks: 100

Duration:

3 hours (including MCQs paper – maximum 20 minutes)

Instructions for candidates:

- 1. Write your roll number on the top on both the MCQ question paper and the LAQ, SAQ question paper immediately on receipt.
- 2. All questions are to be attempted.
- 3. Part A is to be attempted on the provided question paper itself.
- 4. Part B, C and D are to be answered in separate answer-sheets.
- 5. Part A question paper is to be detached and returned back after 20 minutes of the start of the examination.
- 6. Only blue/black ink is to be used for attempting the paper including the MCQ section. Use of pencil is only allowed for diagram/graphs.

PART A 20 marks

Instructions for candidates:

There are 20 questions, each having one mark.

There is no negative marking for a wrong answer.

For each question, indicate your answer by writing the option choice (A, B, C or D) within the square box next to the question.

An option choice once indicated within the box is not allowed to be changed. Any scratching, scribbling, overwriting or change of the indicated choice within the box, will be considered as a wrong response.

MCQs 1 to 20.

Each question having:

Ouestion stem

Four labelled option choices - A,B,C,D

Square box (for learner to indicate his/her choice of answer)

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III PROF. M.B.B.S. PART I (ANNUAL / SUPPLE)

OPHTHALMOLOGY

PAPER

Duration:

3 hours (including MCQs paper – maximum 20 minutes)

Instructions for candidates:

- 1. Write your roll number on the top on both the MCQ question paper and the LAQ, SAQ question paper immediately on receipt.
- 2. All questions are to be attempted.
- 3. Part A is to be attempted on the provided question paper itself.
- 4. Part B, C and D are to be answered in separate answer-sheets.
- 5. Part A question paper is to be detached and returned back after 20 minutes of the start of the examination.
- 6. Only blue/black ink is to be used for attempting the paper including the MCQ section. Use of pencil is only allowed for diagram/graphs.

PART B 32 marks

- 1. LAQ 16 marks (marks allocation for sub-parts to be indicated)
- 2. SAQ 8 marks
- 3. SAQ 8 marks (AETCOM module)

PART C 24 marks

- 1. LAQ 16 marks (marks allocation for sub-parts to be indicated)
- 2. SAQ 8 marks

PART D 24 marks

- 1. LAQ 16 marks (marks allocation for sub-parts to be indicated)
- 2. SAQ 8 marks

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