Reg. No.		
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## MANIPAL ACADEMY OF HIGHER EDUCATION MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2022 PAPER I

Friday, April 01, 2022

Tim	e: 14:00 – 17:00 Hrs.	Max. Marks: 100
Ø	Answer all the questions.  Draw diagrams wherever necessary.	
Ø	Long Essay:	
1.	Discuss the theories of colour vision.	
		(15 marks
2.	Discuss binocular single vision.	(15
	y .	(15 marks
3.	Short answers:	
3A.	Anatomy of superior orbital fissure	
3B.	Scleral contact lenses	
3C.	Factors influencing corneal transparency	
3D.	Hess chart	
3E.	Genetics of retinoblastoma	
3F.	Gancyclovir	
3G.	Electroretinogram	
3H.	Adie's pupil	
3I.	Microbiology of acanthamoeba	
3J.	Various methods to measure AC/A ratio	
		$(7 \text{ marks} \times 10 = 70 \text{ marks})$

Reg. No.			

### MANIPAL ACADEMY OF HIGHER EDUCATION MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2022 PAPER II

Saturday, April 02, 2022

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

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 A 50 year old woman with primary angle closure glaucoma presents with shallow anterior chamber on first post-operative day following Trabeculectomy. Describe the management of the case.

(15 marks)

2. Discuss the management of a 24 year old myopic male who presents with retinal detachment in left eye with a break at 9 clock hour.

(15 marks)

- 3. Write short answers for the following:
- 3A. Describe the staging of retinopathy of prematurity
- 3B. Discuss ocular features of pregnancy induced hypertension
- 3C. Discuss surgical options for keratoconus
- 3D. Discuss the management of a four year old child with congenital nasolacrimal duct obstruction, with history of failed probing and intubation.
- 3E. A 3 year old boy is brought with the complaints of whitish discoloration in the pupillary area. How would you evaluate the patient?
- 3F. Describe the management of the nucleus in phacoemulsification.
- 3G. Discuss in brief the evaluation and treatment options of congenital ptosis.
- 3H. Write short notes on Progressive outer retinal necrosis.
- 31. Discuss the etiology and clinical features of 6<sup>th</sup> cranial nerve palsy
- 3J. Discuss proptosis associated with Neurofibromatosis type 1.

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

Reg. No.			

# MANIPAL ACADEMY OF HIGHER EDUCATION MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2022 PAPER III

Monday, April 04, 2022

Tim	e: 14:00 – 17:00 Hrs.	Max. Marks: 10
Ø	Answer all the questions.	
Ø	Draw diagrams wherever necessary.	
Ø	Long Essay:	
1.	Discuss the ocular features of sarcoidosis.	
		(15 mark
2.	Discuss drug induced uveitis	
		(15 marks
3.	Short answers:	
3A	Ocular features of Behcet's syndrome	
3B.	Giant cell arteritis	age of
3C.	Management of diabetic macular oedema	
3D.	Rhinoorbital mucormycosis	
3E.	Neuromyelitis optica	
3F.	Endogenous endophthalmitis	
3G.	HCQ treatment follow up protocol to detect ocular toxicity	
3H.	Ocular manifestations of mucopolysachharidosis	
3I.	Ocular manifestations of Idiopathic intracranial hypertension	
3J.	Ocular manifestations of Juvenile rheumatoid arthritis	
		$(7 \text{ marks} \times 10 = 70 \text{ marks})$

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### MANIPAL ACADEMY OF HIGHER EDUCATION MS (OPHTHALMOLOGY) DEGREE EXAMINATION – APRIL 2022 PAPER IV

Tuesday, April 05, 2022

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer all questions.
- Essay Questions:
- 1. Discuss in detail multimodal imaging of the choroid.

(15 marks)

2. Describe the role of optical coherence tomography (OCT) in the evaluation of anterior segment pathologies.

(15 marks)

- 3. Write short notes on the following:
- 3A. Brolucizumab
- 3B. Protocol T and protocol S
- 3C. Intravitreal chemotherapy for retinoblastoma
- 3D. Recent advances in strabismus surgery
- 3E. Newer antiglaucoma medications
- 3F. Deep anterior lamellar keratoplasty (DALK)
- 3G. Phakic intraocular lenses
- 3H. Boston keratoprosthesis
- 31. Management of symptomatic vitreous opacities
- 3J. Use of tele ophthalmology during Covid pandemic

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$