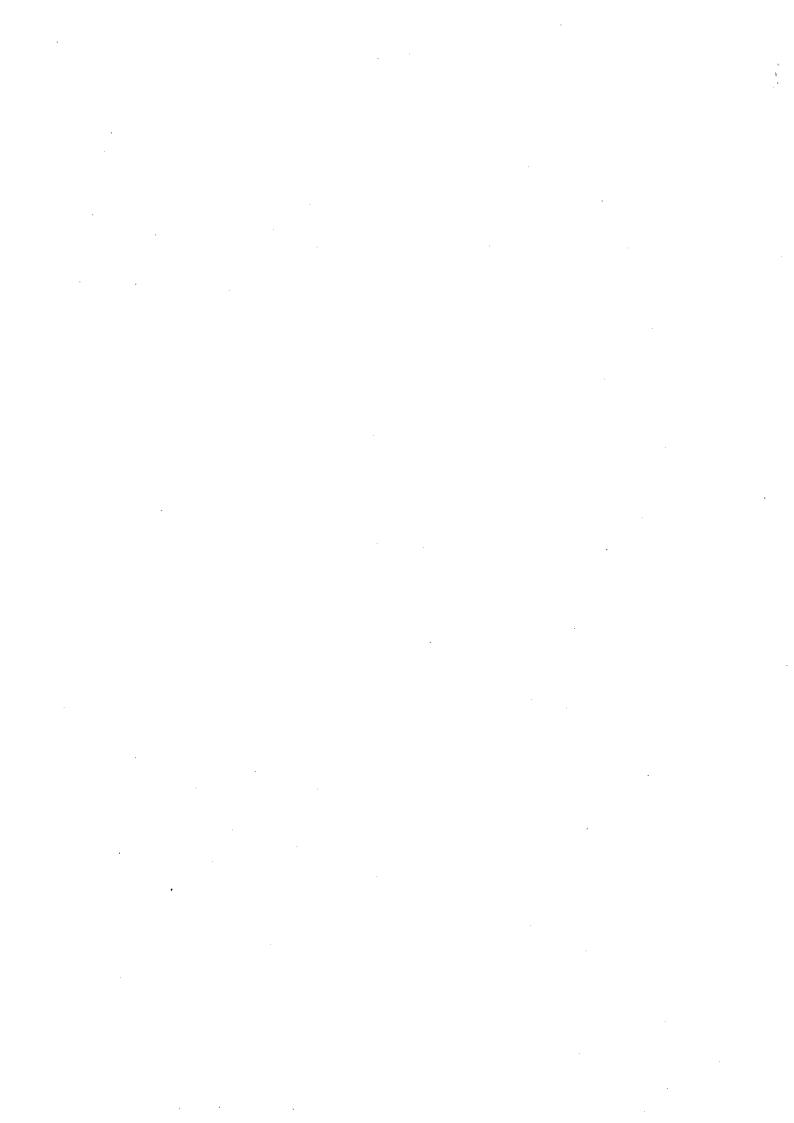
Candidate's Seat No:

Third Year B.Optometry Examination Binocular Vision and Orthoptics

		4-07-2019, wednesday		[Max. Marks	: 80
Į.		3 Hours	1	1	
	instru	ictions: (1) Figure to the right			
		(2) Draw diagram whe	rever nece	ssary.	
		(3) Write legibly.	1 1 0		
		(4) Use separate answ			
1	Ohio	stire Organiae	SEC	FION I	-4.6
1		ctive Question :	(6)	D-C ND A	10
	(1)	Define Vergence Define Version	(6)	Define N.P.A.	
	(2)		(7)	Define yoke muscles	
	, ,	Define AC/A ratio	(8)	Define ARC	
	(4)	Suppression	(9)	Define NRC	
	(5)	N.P.C.	(10)	Define accommodation	
2	Ancin	er any five with diagrams.:			30
Lis	(a)	•	h niaturas	What are the advantages of DCV/0	30
	(b)			What are the advantages of BSV?	
	(0)	patho. diplopia.	with types	& diagrams. Give some differences between phy. &	
. •	(c)	Explain: (i) PANUM'S - AR	FA with d	iaaram	
	(0)			SIONAL - RESERVE	
	(d)		` '	A with all causes, types, sign-symptoms in short.	
	(e)	Explain all E.O.M. with action			
	(f)	Explain 'AMBLYOPIA' with la		•	
	(-)		·······································	country to management in short.	
			SECT	TON II	
3	-	tive Question:			10
	(1)	LATENT NYSTAGMUS	(6)	Uses of R.A.F. rule	
	(2)	, -	(7)	SEQULEA OF RLR	
	(3)	Explain cover - uncover test	(8)	SEQULEA OF RSO	
	(4)	Explain cover test	` ,	D.V.D.	
	(5)	Uses of CHEIROSCOPE	(10)	What is X pattern?	
		C 1 1			
4		er any five in short:	c ·		30
	(a)	Explain all weakening procedur			
	(b)	Draw a Diplopia chart for REM			
	(c)			liagnostic & THERAPEUTIC USES.	
	(d)			nostic methods & how we can manage it.	
	(e)		TROPIA" a	& Management of ACCO. ESOTROPIA	
	/ C \	in a 6 years old girl.	1 0		
	(f)	Explain: (i) H.B. test for ang			
	, .	(iii) Explain PENALIS			
	('g')	Explain in short: (i) DUANE			
		(ii) All uses of S	YNOPTO	PHORE (iii) PARADOXICAL - DIPLOPIA.	



Candidate's Seat No:

Third Year B.Optometry Examination Contact Lens I & II

Date:	26-07-2019,	Friday]
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(Time: 3 Hours

[Max. Marks: 80

Instructions: (1) Figure to the right indicates marks.

- (2) Draw diagram wherever necessary.
- (3) Write legibly.
- (4) Use separate answer books for each section.

SECTION I:

Q.1. Answer in Short

a). MCQ

(10 marks)

(1 mark each)

1. According to Harvitt and Bonanno, what should the transmissibility of daily wear contact lenses be to limit or prevent corneal oedema?

a.
$$Dk/t = 24 \times 10^{-9}$$

b.
$$Dk/t = 24 \times 10^{-11}$$

c.
$$Dk/t = 35 \times 10^{-9}$$

d.
$$Dk/t = 35 \times 10^{-11}$$

2. According to Harvitt and Bonanno, what should the transmissibility of extended wear contact lenses be to limit or prevent corneal oedema?

a.
$$Dk/t = 87 \times 10^{-9}$$

b.
$$Dk/t = 87 \times 10^{-11}$$

c.
$$Dk/t = 125 \times 10^{-9}$$

d.
$$Dk/t = 125 \times 10^{-11}$$

3. All of the following are true of aspheric RGP lenses as compared to spherical RGP's, except:

- a. Better corneal alignment is achieved
- b. Provide better vision
- c. More difficult to manufacture
- d. More difficult to verify

4. What is the Internal astigmatism in an eye with subjective refraction -5.00 / -3.00 x 180° and keratometry readings 44.00 / 46.00 @ 90°?

5. What is the minimum amount of corneal oedema present if 2 folds are observed in the deep stroma.

b. 8%

c. 16%

d. 4%

6. is an example of wetting agent

a. hydroxypropylcellulose

b. polyvinyl alcohol

c. chlorohexidine

d. Both A & B

7. Which one of the following is Not a typical sign of MK?

a. Bulbar redness

b. Altered corneal astigmatism

c. Mucopurulent discharge

d. Lid oedema

8. A patient has a spectacle refraction of -18.50 DS at a vertex distance if 12 mm.

What BVP should be ordered for the final contact lens?

9. A contact lens with an EOP of 7% allows how much available atmospheric oxygen to the cornea:

d. 50%

		al visible iris diamet	日日日348(人) er (HVID) of 11.0 mm. this patient with soft co	Which of the following total lens ntact lenses?
	a. 9.00 mm	b. 10.00 mm	c. 13.00 mm	d. 15.00 mm
Q.2. Wr	ite short notes on (ar	ıy five)		(30 marks)
2. V 3. I 4. I 5. I	Write about various te ndications of contact Discuss various ocula Function of buffers, to	sts for dry eye evalua lenses, with reasons. r complication causes onicity agent and surfa	tion? due to high water content actants in multipurpose s	
6. l	Explain Keratoconus,	its assessment and ma	anagement.	
	÷	SE	CCTION II:	•
Q.1. Sho	rt answer			(10 marks)
1.	Altering the specific	gravity of a rigid lens	s can change the mass by	/ 20%. (true/false)
2.	Soft contact lens is r	nore suitable for occa	sional wear than RGP le	ns. (true/false)
3.	Ptosis is more comm	on with RGP than so	ft contact lens. (true/fals	e) ,
4.	Bacterial corneal ulc	er is more common v	vith soft than RGP conta	ct lens. (true/false)
5.	The best immediate an alkali. (true/false)		ical splash to the eye is l	Neutralization of the chemical with
6.	What is the typical p	H of Human tears un	der normal open eye con	ditions?
7.	What is water conten	nt in soft contact lense	es?	
8.	diameter 14.50 mm.	The lens fit is satisfa	ctory, but you decide to	(BOZR) of 8.60 mm and overall fit a smaller lens with a diameter of ns, in order to keep the same lens-
9.	The normal, non-len	s wearing cornea typi	ically swells approx.	% during sleep.
10.	Cornea is composed	of%(GAGs.	
Q.2. Wr	ite short notes on (a	ny five)	*	(30 marks)
	Write a note on Soft o		uring methods. ng various modalities.	

- 3. Indications of Keratometry and topography for soft contact lenses fitting.
- 4. Explain Hydrogen peroxide system and cold chemical disinfectant system.
- 5. Explain CLARE, its assessment and management.
- 6. Note on soft Toric CL stabilization techniques?

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Third Year B.Optometry Examination Major Eye Diseases & Systemic Diseases

Date: 30-07-2019, Tuesday]

[Max. Marks: 80

[Time: 3 Hours

- **Instructions**: (1) Figure to the right indicates marks.
 - (2) Draw diagram wherever necessary.
 - (3) Write legibly.
 - (4) Use separate answer books for each section.

SECTION-A

Q-1. Choose the correct answer

(10)

- 1) Kayser- Fleischer ring in case of Wilson's disease is seen in
 - a) Cornea
 - b) Iris
 - Lens c)
 - d) Macula
- 2) All of the following can be ophthalmic presentations of a patient having neurological problem except
 - a) Headache
 - b) Dimness of vision
 - c) Metamorphopsia
 - d) Field defect
- 3) All of the following drugs cause optic neuropathy except
 - a) Ethambutol
 - b) Isoniazide
 - c) Chloramphenicol
 - d) Rifampicin
- 4) Atropine is contraindicated in
 - a) Neovascular glaucoma
 - b) Malignant glaucoma
 - c) Uveitic glaucoma
 - d) Acute angle closure glaucoma
- 5) Rosette cataract is associated with
 - a) Diabetes
 - b) Anterior uveitis
 - Blunt ocular trauma
 - Penetrating ocular injuries

P.T.O.

0719E358(2)

6)	All of the following are causes of sudden painless visual loss except a) CRAO b) Vitreous haemorrhage c) Tractional R.D. d) Cataract
7)	Retrolental fibroplasia is a term used for a) PHPV b) ROP c) Coat's disease d) Retinoblastoma
8)	Full form of CME is a) Central Macular Edema b) Clinically Significant Macular Edema c) Common Macular Edema d) Cystoid Macular Edema
9)	Neuroretinalrim of optic nerve head is thickest a) Superiorly b) Inferiorly c) Nasally d) Temporally
10)	Myesthenia gravis can produce all of the following except a) Paralysis of accommodation b) Paralysis of convergence c) Paralysis of lateral rectus d) Paralysis of LPS
Q-2) W 1. 2. 3. 4. 5. 6.	Prite short notes on any five out of six (with details and diagram) Ocular manifestations of blunt trauma Congenital cataract HIV and eye Marfan'ssyndrome. Malignant ocular tumours. Age Related Macular Degeneration

0719E358(3)

<u>SECTION – B</u>

Q-3	Answer in short	(10)
1.	Name the disease where corneal collagen cross linking therapy is used.	
2.		
3.	Name the laser used to treat diabetic macular edema.	
4.	Two uses of antibiotic with steroid eye drops.	
5.	Left optic tract lesion will cause	
6.	··· · · · · · · · · · · · · · · · · ·	
7.	Name the muscles which help to elevate the upper eye lid.	
8.	Name two causes of night blindness.	
9.		
10). Causes of cherry red spot over macula.	
Q-4 · \	Write short notes on any five out of six (with details and diagram)	(30)
1.	Differential diagnosis of leucocoria	
2.	Classification of optic atrophy	
3.	WHO classification of Trachoma	
4.	Congenital anomalies of lens	
5.	Eye and toxoplasmosis	
6.	Optical coherence tomography	

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Third Year B.Optometry Examination

Occupational Optometry & Community Optome	etr
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Date: 01-08-2019, Thursday]

[Max. Marks: 80

[Time: 3 Hours

Instructions: (1) Figure to the right indicates marks.

- (2) Draw diagram wherever necessary.
- (3) Write legibly.
- (4) Use separate answer books for each section.

SECTION A

[40 Marks]

Q-1 ANSWER THE FOLLOWING.

(10 MARKS)

- 1. What is infrared radiation?
- 2. What is NASCAVOMETER?
 - 3. What is glaucoma?
 - 4. Define hazard.
 - 5. What is a consent?
 - 6. What is workplace survey?
 - 7. Name any two occupation where colour vision is necessary.
 - 8. Long term exposure of UV to conjunctiva can cause
 - 9. BS 7028 classifies as
 - 10. True or False: Alcohol is a social drug.

Q-2 WRITE SHORT NOTES ON (ANY 5)

(30 MARKS)

- 1. Write any three occupations where PPE is required? Which PPE would you suggest in each occupation?
- Write a note on Computer Vision Syndrome.
- 3. What are the factors which affect mans safety at work.
- 4. What are the advantages of contact lens over spectacles?
- 5. What are the different eye conditions which can occur due to trauma?
- 6. Write different roles of optometrist.

SECTION B

[40 Marks]

Q-3 ANSWER THE FOLLOWING:

(10 MARKS)

- 1. Define visual field.
- 2. How much illumination is needed for a visual acuity setup?
- 3. Which tint will you advice to a shooter?
- What is public health?
- 5. Which type of cataract occurs in diabetes?

[P.T.O.

0819E367(2)

- 6. What is a blow out fracture?
- 7. What is ROP?
- 8. Define contrast sensitivity.
- 9. Which material is used for manufacturing of sports polaroid lenses?
- 10. What is drop ball test?

Q-4 WRITE SHORT NOTES ON: (ANY FIVE)

· (30 marks)

- 1. Tabulate different sports and their visual demands.
- Which are the tests you will perform for a badminton player?
- Tabulate different tints recommended for different sports.
- How will you set up refraction on camp site? What are the different problems you will face on camp site?
- 5. What is sports visual task analysis?
- 6. What are the duties of an optometrist in a primary eye care Centre?

Candidate's	Seat No	:	

Third Year B.Optometry Examination

Pediatric Optometry, Geriatric Optometry & Low Vision Aids

Date: 03-08-2019, Saturday] [Max. Marks: 80

[Time: 3 Hours

Instructions: (1) Figure to the right indicates marks.

- (2) Draw diagram wherever necessary.
- (3) Write legibly.
- (4) Use separate answer books for each section.

SECTION A

Q.1 D	o as Directed	IV MAINS
1.	instrument measures the endothelial ce	ell count.
2.	Xalatan is type of drug in glaucoma.	
3.	1 in borotometer for extending a ra	ange from 52 D to 61D
4.	Define Legal blindness?	
5.	4M = N points.	•
6.	Define Abnormal Retinal Correspondence	
7.	In Logmar Visual acuity chart one letter is	log unit.
8.	The HVF 30-2 indicates	•
9.	What is Jack in the box phenomenon?	
1:	0. Define Nystagmus and list physiological nystagmus	

Q.2 Short questions (Any five)

30 Marks

10 Marke

- 1. List Different disease in children having history of Genetic factors (Explain any three according to type of Genetic involved) Optical devices in Low vision.
- 2. Congenital Dacryocystitis
- 3. Define Low vision and Explain 20/50 = 1M = N8
- 4. Uses of Cycloplegics in pediatric patient
- 5. A patient with 60 ARMD having a severe low vision. Write down its behavioural and clinical problems of patient and how will you manage optically and non-optically?
- 6. Important factors involved in selecting a frame for Pediatric child of 5 year old? Explain Transverse angle and splay angle

SECTION B

\mathbf{Q} .	1 Do as Directed	10 Marks
1.	The amsler grid is a near point test of central	degree of vision.
2.	Eikonometer is the instrument used to measure the dispa	
	retinal images.	(True or False)
3.	Three Uses of OCT?	
4.	Name Three different colour vision test?	
5.	retinoscopy technique is used to estimate h	ypermetropic
	refraction without any trial lens.	
6.	When one eye is emmetropic and other eye is Myopia of -3	.00. Then it is called
	type of Anisometropia.	
7.	Type of pin hole should be used in low	vision patient
8.	Muscles responsible for Leavoelevation are and	·
9.	Instrument can measure the posterior	corneal curvature
	and corneal thickness.	
1(). What is Stargadt Disease?	
Q.2	Short question (Any 5)	0 Marks
1.	Mention different vision therapies to be given in Anisometr	ropic Amblyopia
2	. Explain Grades of Hypertensive Retinopathy in an elderly	patient.
3	. Note on types of Magnification? Explain any one type of ca	alculating
	magnification	
4	. Anti-Glaucoma drugs	
5		
6	. Mention major investigation to be performed in geriatric lo	ow vision patients?