Candidate's Seat No:

-	Binocular Vision and Orthor	
Date: 02-01-20	- · · · · · · · · · · · · · · · · · · ·	[Max. Marks: 80
Time: 3 Hours		p .
-	(1) Answer to the point.	
	(2) Figure to the right indicates marks.	
	(3) Draw diagrams wherever necessary.	
	(4) Write legibly.	
	(5) Use separate answer books for each section	n.
01 Till i 4h	a blanks (10-1)	(10
Q1 Fill in th	e blanks (10x1)	
1. Pena	alization for near involves	
2. Fusi	ion is defined as	
3. The	ability to appreciate stereopsis in a pr	atient with esotropia would
•	cate the presence of	
	secondary action of Inferior Oblique mus	scle is
	state of retinal correspondence in a patie	
	10 degree objective angle of deviation is	
	ommodative facility can be assessed by _	
	A ratio is described as	
8. Usir	ng Hirschberg test to diagnose heteroph	oeia requires assumption of
		•
9. Fixa	ation disparity is	
10.Pan	um's area is defined as	
	•	
O2: Answer	any five of the following (5x6)	(30)
V ² Allswer	any five of the following (5x6)	
1. Exp	lain in details with diagram the anatomy	and physiology of action of
	erior Oblique Muscle	

2. Discuss in details the clinical characteristics of Strabismic Amblyopic · patient

- 3. What is Physiologic Diplopia? Explain it with diagram.
- 4. Write a short note on microtropia
- 5. What are different methods of measurement of angle of deviation
- 6. Explain the advantages of Binocular Vision. What are the monocular clues to stereopsis

 $\overline{P.T.O.}$

(30)

Q3 Fill in the blanks (10x1)

1.	Tendency of one eye to wheel rotate relative to other is
	called
2.	A person having 8PD exophoria at a distance of 4m and 25PD exophoria
	at 30cm is said to have
3.	V phenomenon is present where
4.	Latent nystagmus is revealed by
5.	The direction of gaze in which horizontal or vertical separation of image
	is greatest in case of right Inferior Oblique
	palsy
6.	The method in which AC/A ratio is measured by changing the fixation
	distance from 6m to 30 cm is
7.	The 3 components of head posture are
8.	Relieving prisms are prescribed to
9.	A telecanthus gives the appearance of
10	.When the angle of deviation remains fairly constant in all fields of gaze,
	the deviation is said to be

$\overline{Q4}$ Answer any five of the following (5x6)

- 1. Explain diplopia charting with example
- 2. Write short note on Beilschowsky head tilt test
- 3. What are the uses of synoptophore
- 4. Explain in detail the investigation required in case of Primary Divergent Squint
- 5. Discuss in detail the investigation in case of accommodative convergent deviation
- 6. Write in detail the classification of strabismus

0119E523

Candidate's Seat No:

[Max. Marks: 80

Third Year Optometry Examination Contact Lens I & II

Date: 04-01-2019, Friday	•		
,			

[Time: 3 Hours

Instructions: (1) Answer to the point.

- (2) Figure to the right indicates marks.
- (3) Draw diagrams wherever necessary.
- (4) Write legibly.
- (5) Use separate answer books for each section.

SECTION A:

Q.1. Answer in Short

(10 marks)

a). MCQ (1 mark each)

- 1. What is the average open eye temperature range of the normal human cornea?
 - a. 33.4 to 33.9 °C

b. 34.2 to 34.5 °C

c. 34.9 to 35.4 °C

- d. 36.2 to 37.7° C
- 2. Which one of the following tear evaluation tests is the least invasive procedure?
 - a. Assessment of the tear meniscus

b. Schirmer tear test

c. Phenol red thread test (PRTT)

- d. TBUT with fluorescein
- 3. Which of the following combinations gives the correct average corneal curvature, centre thickness, and refractive index?

Centre thickness	Refractive index		
0.48 to 0.51mm	1.336		
0.52 to 0.55 mm	1.376		
0.52 to 0.55mm	1.376		
0.50 to 0.52 mm	1.3375		
	0.48 to 0.51mm 0.52 to 0.55 mm 0.52 to 0.55mm		

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°?

a. -1.00 DC x 90°

b. -1.00 DC x 180°

c. -2.00 DC x 90°

- d. -5.00 DC x 180°
- 5. The following is FALSE about a contact lens with the following numbers 8.8/13.7/-5.25:
 - a. The base curve of contact lens is 13.7

b. the diameter of contact lens is 13.7

c. The base curve of contact lens is 8.8

d. the contact lens has a power of -5.25

b). Match the Columns (1 mark each)

A

В

1] Rust spot

1] Greasy, smooth, shiny film on lens surface

2] Lysozyme

2] Water-spot, finger print

3] Lipid deposit

3] Indistinct borders

4] Jelly bumps

4] Tear Protein

5] Calcium deposit

- 5] Non tear related deposit
- 6] Tear related deposit

Q.2. Write short notes on	(any	five)
---------------------------	------	-------

(30 marks)

- 1. Note on RGP Tricurve lens design.
- 2. Write a note on contact lenses materials properties. And company products availability in India.
- 3. Contraindications of contact lenses, with reasons.
- 4. Discuss various ocular complication causes due to low DK/t hydrogel soft lenses.
- 5. Function of preservative system in multipurpose solutions.
- 6. Mr. Mehta, age 34 year old, has a spectacle correction of RE -3.50/ -2.00 x180 & LE -3.50/ -1.00x 180, Keratometry reading in BE = 7.40mm@180 & 7.70mm @ 90. He wants to try contact lenses.

 What options will you suggest and what investigation will you do? Describe the management of this case.

SECTION B:

Q.3. Sh	oort answer (10 marks)
1.	Any MPDS can be used directly in the eye for wearing the lenses. (True/False)
2.	Jelly bumps contain only Lipid. (True/False)
3.	B+L HO series provide power till -5.00 D. (True/False)
4.	Pregnant women in her 1st trimester can be given contact lenses. (True/False)
5.	Pervaporation occurs more if the lens is low water content thick lenses. (True/False)
6.	Modulus of elasticity is defined as
7.	is an example of inorganic deposits.
8.	A patient wears a soft trial lens with a back optic zone radius (BOZR) of 8.60 mm and overall
	diameter 13.50 mm. The lens fit is satisfactory, but you decide to fit a larger lens with a diameter of
	14.00 mmBOZR would be required the new contact lens, in order to keep the same lens-
	cornea relationship?
9.	is the minimum amount of corneal edema present if striae are observed in the
	posterior Stroma.
. 10	0. Cornea is composed of % water.
2.4. w	rite short notes on (any five) (30 marks)
1. V	Vrite a note on contact lens manufacturing methods.
2. D	Discuss the options available for correcting Both eye paediatric pseudophakes, including the wear
N	Modality, lens types, oxygen transmissibility & replacement schedules?
3. D	Discuss Non tear related deposits in CL.
4. E	xplain Stand Alone method & Hydrogen peroxide system.
	Discuss various ocular complication causes due to hydrogel lenses.
5. D	130dbb falfodb ocalar comprisences 5

0119E536

Candidate's Seat No:

[Max. Marks: 80

Third Year Optometry Examination Major Eye Diseases & Systemic Diseases

Date	:	08-01-2019,	Tuesdayl
	•	VV VI WVIJA	AUVJURTI

[Time: 3 Hours

Instructions: (1) Answer to the point.

- (2) Figure to the right indicates marks.
- (3) Draw diagrams wherever necessary.
- (4) Write legibly.
- (5) Use separate answer books for each section.

SECTION A

Q.1 MCQ

(10)

- 1. Bussaca's nodule seen in
 - a) Granulomatous uveitis
 - b) Non Granulomatous uveitis
 - c) Keratitis
 - d) Scleritis
- 2. Left optic tract lesion cause
 - a) Right hemianopia
 - b) left hemianopia
 - c) Bitemporalanopia
 - d) Binasalanopia
- 3. Copper FB can cause
 - a) Sunflower cataract
 - b) Siderotic cataract
 - c) Snow fleck cataract
 - d) Rosette cataract
- 4. Neovascular Glaucoma caused by
 - a) Diabetes
 - b) Hypertension
 - c) Malaria
 - d) Anaemia
- 5. Arlt[†]s line is seen in
 - a) Spring Catarrh
 - b) Glaucoma
 - c) Trachoma
 - d) Cataract
- 6. Uncrossed diplopia occur in
 - a) exotropia
 - b) esotropia
 - c) Hypertropia
 - d) Hypotropia

7.. Syphilis can be diagnosed by

- a) Kveim test
- b) VDRL
- c) ELISA
- d) ESR
- 8. Argon floride laser is
 - a) UV laser
 - b) Infra red Laser
 - c) Solid state Laser
 - d) Micro Laser
- 9. Peudoptosis is seen in
 - a) Phthysisbulbi
 - b) Proptosis
 - c) Hypertropia
 - d) Exotropia
- 10. Size of Whattman Filter paper is
 - a) 5*45
 - b) 5*30
 - c) 5*50
 - d) 5*25

Q.2 Write Short Notes on (Any Five)

- 1. Ptosis
- 2. Ocular manifestation of AIDS
- 3. Ocular manifestation of Thyroid
- 4. Retinal detachment
- 5. Phaco emulsification
- 6. Laser in ophthalmology

(30)

OII9E536(3) SECTION B

Q.3 MCQ (10)

- 1. DCR is contraindicated in
 - a) Fistula
 - b) Chronic dacryocystitis
 - c) Mucocele
 - d) Dacryolith
- 2. In Blepharophimosis Syndrome, this does not incorported
 - a) ptosis
 - b) proptosis
 - c) Telecanthus
 - d) ectropion
- 3. Steroids can produce
 - a) posterior polar cataract
 - b) posteriorsubcapsular cataract
 - c) nuclear cataract
 - d) cortical cataract
- 4. Foster fuch's spot is seen in
 - a) Retinitis pigmentosa
 - b) ARMD
 - c) CMV Retinitis
 - d) Pathological Myopia
- 5. Stoker's line is seen in
 - a) Pterygium
 - b) Keratoconus
 - c) Wilson Disease
 - d) Kearatoglobus
- 6. Sudden painless loss of vision occur in all EXCEPT
 - a) CRAO
 - b) CRVO
 - c) Retinal detachment
 - d) Acute congestive glaucoma

	0119E536CA)		,
	7. Leukocoria is seen in all EXCEPT		
	(a) Mature cataract b) Retinoblastoma c) Keratoconus		
	8. Inverse Hypopyon is seen in		
	a) Retinoblasomab) Retinitis pigmentosac) Silicon oil emulsificationd) Uveitis	,	١
	9. What is the drug of choice in Malignant glaucoma ?		
٠.	a) Atropine b) Pilocarpine c) Steroid d) Antibiotic		
	10. True exfoliation is seen in		
	a) Watchmakersb) Glass blowersc) Paintersd) Doctors		
	Q.4 Write Short Notes on (Any Five)	•	(30)
4	 Vit A deficiency Ocular manifestation of Leprosy Neurofibromatosis 		
	 Chemical Injuries Peripheral Ulcerative Keratitis 		
	J. i oriphicial Otocialiyo Izoladida		

6. Diabetic Retinopathy