GOVERNMENT OF KERALA DIRECTORATE OF MEDICAL EDUCATION DIPLOMA IN OPHTHALMIC ASSISTANT COURSE REGULAR \& SUPPLEMENTARY EXAMINATIONS APRIL 2024

## PART I - PAPER-I

BASIC SCIENCE IN OPHTHALMOLOGY AND VISUAL OPTICS
(Answer Section A \& B separately and draw diagrams wherever necessary)

## SECTION-A

I. Describe the etiology, symtoms, signs and treatment of hypermetropia
II. Write Short notes on
(6x5=30)
a. Staining techniques of microorganism
b. Mydriatics
c. Keratoplasty
d. Bjerrum screen
e. Structure of eyeball
f. Streak retinoscopy
III. Answer to the point
a. Size of pinole is $\qquad$
b. Power of lens is expressed as $\qquad$
c. Retinoscopy done in a dark room is done at a distance of
d. The type of lens used in the correction of regular astigmatism
e. Mention two sources of vitamin A
f. Blurring of vision for near work occurs in $\qquad$
g. IOL/ intraocular lens is generally made of $\qquad$
h. Inward deviation of eye is known as $\qquad$

## SECTION B

1. Describe the physiology of vision and colour vision. Describe the methods for assessing colour vision $(6+6=12)$
II. Write short notes on ( $6 \times 5=30$ )
a. Lensometer
b. Trial lenses
c. Post mydriatic test
d. Advantages and disadvantages of aphakic spectacles
e. Normal schematic eye
f. Atropine

III Answer to the point (8x1=8)
a. Standard method of IOP measurements is by $\qquad$
b. Normal AC/A ratio is $\qquad$
c. Refractive error seen in nuclear cataract $\qquad$
d. Scissor reflex is seen in $\qquad$
e. Vitamin A deficiency causes
f. Strongest cycloplegic drug is
g. Eye donation is contraindicated in $\qquad$
h. Name 2 antibiotics used in treatment of corneal ulcer

# DIRECTORATE OF MEDICAL EDUCATION <br> DIPLOMA IN OPHTHALMIC ASSISTANT <br> COURSE REGULAR \& SUPPLEMENTARY EXAMINATIONS APRIL 2024 

DOA-F-II- APR-2024
Time - 3 hrs .
Max.marks: 100

## PART I - PAPER-II

OPTICS AND REFRACTION AND OPHTHALMIC EQUIPMENTS
(Answer Section A \& B separately and draw diagrams wherever necessary)

## SECTION-A

I. What is Accommodation? Mention the anomalies of accommodation and its treatment
II. Write short notes on
a. Astigmatism
b. Cover test
c. Perimetry
d. Intraocular lens
e. Ishihara chart
f. Vision testing in children
III. Answer to the point
a. Normal IOP range is $\qquad$
b. Mention two sources of vitamin A
c. Name two types of retinoscopy
d. Power of condensing lens used with indirect ophthalmoscope is $\qquad$
e. Roving ring scotoma is seen in $\qquad$
f. Example of static perimeter is $\qquad$
g. IOL power is measured by $\qquad$ formula
h. Refractive power of cornea is $\qquad$

## SECTION B

I. Describe the etiology, types, symptoms, signs and treatment of hypermetropia
II. Write short notes on
a. A scan
b. Subjunctive verification of refraction
c. Streak Retinoscopy
d. Neutralisation of lenses
e. Jackson's cross cylinder
f. Binocular single vision
III. Answer to the point.
a. Drug of choice for cyclopegia in children less than 4 years
b. Retinoscopy is done in a dark room at a distance of
c. The type to lens used in the correction of regular astigmatism
d. Lensometer is used to measure $\qquad$
e. Size of pinole is $\qquad$
f. Unilateral Aphakia can be corrected by
g. Relieving prism is used in $\qquad$
h. Hess screen is used in $\qquad$

GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION DIPLOMA IN OPHTHALMIC ASSISTANT COURSE REGULAR \& SUPPLEMENTARY EXAMINATIONS APRIL 2024

DOA-S-I- APR-2024
Time - 3 hrs .

## PART II - PAPER-I

HEALTH EDUCATION, COMMUNITY OPHTHALMOLOGY AND COMMON EYE DISORDERES
(Answer Section A \& B separately and draw diagrams wherever necessary)

## SECTION-A

I. Define glaucoma. Enumerate the risk factors of Primary open angle glaucoma. What are the different techniques of tonometry, mention the field defects of Primary open angle glaucoma.

$$
(2+2+4+4=12)
$$

II. Write precise answers
a. One cause for hypopyon corneal ulcer
b. 2 complications of corneal ulcer
c. Abnormal protrusion of eyeball is called. $\qquad$
d. Mutton fat keratic precipitates are seen in $\qquad$
e. SAFE strategy is for the elimination of $\qquad$
f. 2 causes of red eye
g. Common fungus causing corneal ulcer
h. Rosette cataract is seen in $\qquad$
III. Answer briefly
a. Posterior capsular opacification
b. Pterygium
c. Buphthalmos
d. Fungal corneal ulcer
e. Lens induced glaucoma
f. Rehabilitation of the blind.

## SECTION - B

I. Enumerate the causes of childhood blindness and visual impairment. Discuss the methods of assessing visual acuity in children. Define amblyopia, mention the types and management.
II. Write precise answers
( $8 \mathrm{x} 1=8$ )
a. Chronic granulomatous inflammation of the meibomian glands is $\qquad$
b. Gold standard for IOP recording
c. Nerve supply of Lateral rectus
d. Capsulotomy is done by laser
e. Blood in anterior chamber is called $\qquad$
f. Most sensitive part of retina is $\qquad$
g. Cobble stone papillae is seen in $\qquad$
h. Two causes of limbal nodule

## III. Answer Briefly

a. Vitamin A deficiency
b. Vision 2020
c. Keratoconus
d. Leucocoria
e. Entropion
f. NPCB

# GOVERNMENT OF KERALA 

DIRECTORATE OF MEDICAL EDUCATION DIPLOMA IN OPHTHALMIC ASSISTANT COURSE REGULAR \& SUPPLEMENTARY EXAMINATIONS APRIL 2024

DOA-S-II-APR-2024
Time - 3 hrs .
Max.marks: 100

## PART II - PAPER-II

OPHTHALMIC TECHNIQUES, OPTICS AND REFRACTION GLASSES
(Answer Section A \& B separately and draw diagrams wherever necessary)

## SECTION-A

I. Discuss the principles and optics of retinoscopy. Describe the different stages. Explain the procedure of retinoscopy.
II. Write precise answers:
a. Normal AC/A ratio
b. Axial length of eye ball is measured by $\qquad$
c. Toric lenses correct $\qquad$
d. Corneal endothelial cell count is done using $\qquad$
e. An example for indentation tonometer
f. The angle of anterior chamber is visualized by $\qquad$
g. Refractive power of cornea is $\qquad$
h. Two uses of OCT in Ophthalmology
III. Answer briefly
a. Optics and correction of aphakia
b. Uses of prisms in Ophthalmology
c. Convergence insufficiency
d. Jackson's cross cylinder
e. Subjective verification of refraction
f. Applanation tonometry

## SECTION - B

I. Define Binocular single vision. What are the grades of BSV? Describe the different tests of BSV.
II. Write precise answers
a. Gold standard for IOP measurement is $\qquad$
b. Scissoring reflex in retinoscopy is seen in $\qquad$
c. Pelli-Robson chart is used for measuring $\qquad$
d. Name 2 dyes used in ophthalmic practice.
e. Name a drug which causes miosis
f. Maddox wing is used for measuring $\qquad$
g. An example of static perimetry $\qquad$
h. Rigid IOL is made of $\qquad$
III. Answer briefly
a. Sturm's conoid
b. Progressive lenses
c. Low vision aids
d. Fundus fluorescein angiography
e. Myopia-Optics, types and management.
f. Donder's reduced eye.

