

B.OPTOMETRY - III: SUMMER-2022
SUBJECT : VISUAL OPTICS

Day : Thursday
Date : 07-07-2022 S-836-2022

Time : -
Max. Marks : 20

N.B.

Section - A is given on a **SEPARATE** sheet and has to be answered on the **SAME** sheet. This sheet should be completed within the first 30 minutes of starting of the examination. This sheet with Section A only will be collected by the supervisor.

Seat No. _____

SECTION - A

Q.1 A) Fill in the Blanks: (10)

- 1) The point conjugate with the fovea of the unaccommodated eye is called _____ point.
- 2) Amplitude of accommodation is the difference between _____.
- 3) Pupillary axis is the line joining between _____.
- 4) _____ sightedness is popular name for myopia.
- 5) With age latent hypermetropia becomes _____.
- 6) The lens has a diameter of approximately _____ mm.
- 7) Change in light stimulus applied to the fellow pupil only, is called the _____ reaction.
- 8) _____ is a unit of prism diopter.
- 9) Transverse magnification is _____.
- 10) _____ distance from the posterior vertex of cornea to the anterior surface of crystalline lens.

P.T.O.

B) True or False:

(10)

- 1) The pupil size decreases with age at an approximately uniform rate.
- 2) Distance measured in opposite direction to that of incident ray is regarded as negative.
- 3) Fogging is not possible in myopic eye.
- 4) The normal range of convergence is 7 cm to 8 cm.
- 5) Jet black pupil appears in Aphakia.
- 6) At birth eye is myopic.
- 7) Duochrome test is based on chromatic aberration.
- 8) Reflective power of surfaces is also called as catoptric power.
- 9) Cilliary muscle get relaxed when accommodation is in play.
- 10) Strum's conoid appear in facultative hypermetropia.

Total Marks Obtained _____

Signature of the Invigilator: _____

Signature of the Examiner : _____

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BACHELOR OF CLINICAL OPTOMETRY
II-B. Optometry Sem-III :SUMMER- 2022
SUBJECT : VISUAL OPTICS

Day : Thursday
Date : 7/7/2022

S-836-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 70

N.B.

- 1) There are **THREE** sections as :
Section – A Objective types questions = 20 Marks.
Section – B Long questions = 20 Marks.
Section – C Short questions = 30 Marks.
- 2) Section A is given on a **SEPARATE** sheet and has to be answered on the same sheet. This sheet should be completed within the first 30 minutes of starting of the examination. This sheet with Section A only will be collected by the Supervisor.
- 3) Section B has 3 Long questions and any **TWO** questions have to be answered on **SEPARATE** answer sheet.
- 4) Section C has 6 short questions and any **FIVE** questions have to be answered on **SEPARATE** answer sheet.
- 5) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION – B

Q.2 Attempt any **TWO** of the following: **(20)**

- 1) Write in details about objective method of refraction.
- 2) Explain methods for measurement of convergence.
- 3) Define the schematic and reduced eye.

SECTION – C

Q.3 Attempt any **FIVE** of the following: **(30)**

- 1) Write about locations of cardinal points in thin lens.
- 2) Write in detail about dynamic retinoscopy.
- 3) Write the classification of myopia and add a note on diagnostic methods.
- 4) Define the JCC techniques used for finalizing astigmatic error.
- 5) Explain the optics of cornea in details and also do the calculation of measurement of refractivity of both surface of cornea.
- 6) Explain the optics of an aphakic eye and write in short about diagnosis of it.

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