

I – B.OPTOM. SEM – II : SUMMER-2022
SUBJECT: EYE ANATOMY & PHYSIOLOGY

Day: Monday
Date: 11-07-2022

Time: -
Max Marks. 20

S-831-2022

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.

SECTION – A

Q.1 A) Fill in the blanks. **(05)**

- i) In a fully dark adapted eye, the minimum stimulus necessary to evoke the sensation of light is called as _____.
- ii) Opening of Nasolacrimal duct is guarded by _____.
- iii) Aqueous humor is produced by _____.
- iv) Pigmented epithelium of ciliary body is a forward continuation of _____ layer of the retina.
- v) The posterior surface of the descemet's membrane shows rounded wart like excrescences called as _____.

B) Multiple Choice Question. **(05)**

- i) In visual pathway all the nasal fibers at optic chiasma
 - a) Crossed
 - b) Remain uncrossed
 - c) Go parallel
 - d) Terminate
- ii) The four recti muscles originate from
 - a) Sclera
 - b) Annulus of Zinn
 - c) Body of the sphenoid
 - d) Floor of the orbit
- iii) It is not a part of the bony orbit
 - a) Maxillary
 - b) Palatine
 - c) Ethmoid
 - d) Mandibular
- iv) Which of this is not a part of the anterior chamber angle.
 - a) Scleral spur
 - b) Trabecular meshwork
 - c) ciliary body band
 - d) Episcleral vein

P.T.O.

- v) Which factor does not affect corneal transparency
- a) Corneal epithelium and tear film
 - b) arrangement of the stromal lamellae
 - c) Corneal vascularization
 - d) Aqueous humor production

C) State true or false and give logic for each of your answers.

(10)

- i) Tear film is essential of vision.
- ii) Congenital colour vision defect can't be monocular.
- iii) $6/6 =$ Optotype creates an angle of 5 minutes of arc at the nodal point of the eye form 6 meter / Testing distance
- iv) MR helps in abduction.
- v) Over production of aqueous humor may results increased IOP.

Marks Obtained _____

Signature of Invigilator: _____

Signature of Examiner: _____

BACHELOR OF CLINICAL OPTOMETRY
I-B. Optometry Sem-II :SUMMER- 2022
SUBJECT : EYE ANATOMY & PHYSIOLOGY

Day : Monday
Date : 11/7/2022

S-831-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 50

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 should be completed within the first **30 minutes** of starting or the examination. This sheet with **Section – A** only will be collected by the supervisor.
- 3) Section – B has 3 long questions and attempt any two questions have to answer on **SEPARATE** answer sheet.
- 4) Section – C has short questions and attempt any **TWO** questions have to be answered on **SEPARATE** answer sheet.
- 5) Draw neat labelled diagram **WHEREVER** necessary.

SECTION - B

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

- a) With the help of diagram the anatomy of the human cornea in detail. Describe the anatomical and physiological factors responsible for its transparency.
- b) Define;
 - i) Range and amplitude of accommodation.
 - ii) Convergence and its types.
- c) Draw a labelled diagram of visual pathway. Explain lesions of visual pathway.

SECTION – C

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

- a) Lacrimal apparatus.
- b) Draw a labelled diagram of human eye lid.(Cross section)
- c) Microscopic structure of retina.
- d) Describe EOM in table format.
- e) Formation of aqueous humor.
- f) Compare log MAR and Snellen's visual acuity chart.

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