

I-B-Optom-Sem-II: SUMMER-2018
SUBJECT : EYE ANATOMY AND PHYSIOLOGY

S-2018-3560

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.

No. _____

Date : 28-04-2018

SECTION – A

Q. 1 Fill in the Blanks: (10)

- a) Lens is derived from _____.
- b) Innermost layer of choroid is _____ membrane.
- c) The rate of aqueous formation in human is normally _____ micro l/min.
- d) Main source of energy to lens is through _____ metabolism.
- e) Ability of eye to adopt itself to decreasing illumination is _____ adaptation.
- f) Average reaction time for far to near accommodation is _____ sec.
- g) _____ stimulation refers to a different stimulation in the two eyes.
- h) _____ is the visual appreciation of three dimensions during binocular vision.
- i) Rods are responsible for _____ vision.
- j) The highest density of cones is at _____.

Q. 2 State True or False: (05)

- a) The red light consists of seven colours denoted by VIBGYOR.
- b) An individual with normal colour vision is known as dichromate.
- c) After closure of eyelids the eyeball is rotated upwards and outwards is called as Bell's phenomenon.
- d) Partial loss of sight in one or both eyes is called as amblyopia.
- e) Bruch's membrane is innermost layer of sclera.

Q. 3 Match the following: (05)

- | | |
|-------------------------------------|-----------------|
| a) Xerophthalmia | i) Trochlear |
| b) Superior oblique | ii) Occulomotor |
| c) Medial rectus | iii) Hippus |
| d) Lateral rectus | iv) Vit. A |
| e) Exaggeration of pupillary unrest | v) Abducent |

Marks Obtained: _____

Signature of Invigilator: _____

Signature of Examiner : _____

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I -B.OPTOM. SEM – II : SUMMER - 2018

SUBJECT : EYE ANATOMY AND PHYSIOLOGY

Day : **Saturday**
Date : **28/04/2018**

S-2018-3560

Time : **10.00 AM TO 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 with 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 three long questions and any two questions have to be answered on the separate answer sheet.
 - 4) **Section – C** has short questions and **ANY FIVE** questions have to be answered on the **SEPARATE** answer sheet.
 - 5) Draw neat and labelled diagrams **WHEREVER** necessary.
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SECTION – B

- Q. 4** Answer **ANY TWO** of the following: (20)
- a) Describe structural characteristics of ocular vessels. Add a note on ocular hemodynamics.
 - b) Describe mechanism of colour vision and add a note on colour blindness.
 - c) Describe anterior chamber of eye and add a note on aqueous outflow system.

SECTION – C

- Q. 5** Answer **ANY FIVE** of the following: (30)
- a) Tear film
 - b) Visual field defects
 - c) Photoreceptors
 - d) Structure of crystalline lens
 - e) Electroretinogram
 - f) Light reflex

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