

**I-B.OPTOM. SEM.- II : WINTER - 2021**  
**SUBJECT : EYE ANATOMY AND PHYSIOLOGY**

**Day** : Saturday  
**Date** : 16/10/2021

**Time** :  
**Max. Marks** : 20

W-2021 - 831

**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 examination. The sheet with Section A only will be collected by the Supervisor.

Seat No. : \_\_\_\_\_

**SECTION – A**

**Q.1 A) Fill in the blanks :** **(10)**

- i) Central hard part of lens is \_\_\_\_\_ of the lens.
- ii) Axons of the \_\_\_\_\_ cells continue as optic nerve fibers.
- iii) Rods are responsible for \_\_\_\_\_ vision.
- iv) \_\_\_\_\_ orbital fissure is present at the junction of roof and lateral wall.
- v) Total length of superior oblique muscle is \_\_\_\_\_ mm
- vi) Average reaction time for far to near accommodation is \_\_\_\_\_ sec.
- vii) Dilator pupillae is supplied by \_\_\_\_\_ nerve.
- viii) AP diameter of adult eyeball is \_\_\_\_\_.
- ix) The first order neurons in visual pathway are \_\_\_\_\_.
- x) Sclera is thickest at \_\_\_\_\_.

**B) Match the following :** **(05)**

- |                             |                         |
|-----------------------------|-------------------------|
| i) Refractive power of lens | a) 400 nm-750 nm        |
| ii) Dilator Papillae        | b) Manometry            |
| iii) Ophthalmic artery      | c) 16-17 D              |
| iv) Intra ocular pressure   | d) Internal carotid     |
| v) Light perception         | e) Cervical sympathetic |

**C) State True or False. If false give the reason :** **(05)**

- i) Snellen chart is used to measure visual acuity. \_\_\_\_\_
- ii) The optic disc diameter is 2.0 mm. \_\_\_\_\_
- iii) Posterior capsule is thicker than anterior capsule. \_\_\_\_\_
- iv) Normal rate of formation of aqueous humor is 2.3 micro! / min. \_\_\_\_\_
- v) Fovea is vascular zone. \_\_\_\_\_

**Marks obtained :** \_\_\_\_\_

**Signature of Invigilator :** \_\_\_\_\_

**Signature of the Examiner :** \_\_\_\_\_

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**I-B.OPTOM. SEM.- II : WINTER - 2021**  
**SUBJECT : EYE ANATOMY AND PHYSIOLOGY**

**Day** : Saturday  
**Date** : 16/10/2021

**Time** : 10:00 A.M. TO 1:00 P.M.  
**Max. Marks** : 50

**W-2021 - 831**

**N.B.**

- 1) There are three sections as  
Section – A = Objective Type questions - 20 marks.  
Section – B = Long Answer questions - 20 marks.  
Section – C = Short Answer questions - 30 marks.
- 2) Section A is given in **SEPARATE** sheet and has to be answered on 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 Supervisor.
- 3) Section B has three long questions and **ANY TWO** questions have to be answered on separate answer sheet.
- 4) Section C has six short questions and **ANY FIVE** questions have to be answered on separate answer sheet.
- 5) Draw neat labeled diagram **WHENEVER** necessary.

**SECTION – B**

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

- i) Discuss factors affecting corneal transparency.
- ii) Describe mechanism of colour vision and add note on ocular hemodynamics.
- iii) Describe pupillary reflexes.

**SECTION – C**

**Q.3** Write short notes on **ANY FIVE** of the following : **(30)**

- i) Binocular function
- ii) Structure of eye lid
- iii) Tear film
- iv) Structure of crystalline lens
- v) Iris
- vi) Structure of conjunctiva

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