



Name : .....  
Roll No. : .....  
Invigilator's Signature : .....

**CS/B.Optm/SEM-2/BO-203/2013**

**2013**

**ANATOMY (OCULAR)**

*Time Allotted : 3 Hours*

*Full Marks : 70*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following :

$10 \times 1 = 10$

- i) Central retinal artery is a branch of
  - a) the internal carotid artery
  - b) ophthalmic artery
  - c) the external carotid artery
  - d) none of those.
- ii) Meibomian glands are
  - a) modified sebaceous gland
  - b) endocrine gland
  - c) modified sweat gland
  - d) none of these.

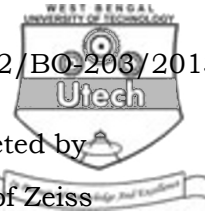
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- iii) “Nuclear bow” is found in
- a) Fovea
  - b) Lens
  - c) Cornea
  - d) Lacrimal gland.
- iv) Blood supply of cornea is
- a) limbal vessels
  - b) branches of ophthalmic artery
  - c) facial artery branches
  - d) none of these.
- v) ..... is not a content of the orbit.
- a) Ciliary ganglion
  - b) Lacrimal gland
  - c) Caverrous sinus
  - d) Lacrimal sac.
- vi) ..... muscle is present only is upper eyelid and originates from apex of orbit and its insertion is divided into 5 parts.
- a) Upper Mullers muscle
  - b) Lower mullers muscle
  - c) Orbicularis oculi
  - d) Levator palpebrae superioris.
- vii) ..... are situated within the substance of tarsal plate & open by a single duct on lid margin.
- a) Glands of Moll
  - b) Glands of Krause & Wolfring
  - c) Glands of Zeiss
  - d) Meibomian glands.



- viii) The outer lipid layer of tear film is secreted by
- a) Meibomian gland
  - b) gland of Zeiss
  - c) gland of Moll
  - d) all of these
  - e) none of these.
- ix) Each rod and cone may be divided into 3 parts. The ..... is divided into an outer ellipsoid and inner myoid portion.
- a) outer segment
  - b) cilium
  - c) inner segment
  - d) outer plexiform layer.
- x) Fovea contralis is a depressed area located about 3mm ..... to optic disc.
- a) above
  - b) below
  - c) temporal
  - d) nasal.
- xi) ..... muscle is responsible for elevation on abduction and intorsion.
- a) Oblique (inferior)
  - b) Rectus (superior)
  - c) Tarsal (inferior)
  - d) None of these.

**GROUP - B**

**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

2. Walls of the orbit
3. Central Retina
4. Structure of Iris
5. Corneal transparency.

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**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

6. With the help of a labelled diagram, explain the structural anatomy of visual pathway starting from optic nerves to visual cortex.
7. a) With the help of a labelled diagram, discuss the structural anatomy of the angle of the anterior chamber.  
b) Discuss in detail the 'Trabecular meshwork'.  $10 + 5$
8. a) Discuss with the help of a labelled diagram the anatomical structure of choroid and Bruch's membrane.  
b) What is the blood supply of choroid?  $10 + 5$
9. a) In respect of the IIIrd cranial nerve, mention
  - i) its origin,
  - ii) how it enters the orbit
  - iii) how does it end.  
b) With the help of a diagram, explain the various parts of the human crystalline lens.  $7\frac{1}{2} + 7\frac{1}{2}$

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