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.

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 outter 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.

$3 \times 5 = 15$

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

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 brom 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 membranee.

   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 helf of a diagram, explain the various parts of the human crystalline tens. $7\frac{1}{2} + 7\frac{1}{2}$