

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 × 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) Cavernous sinus d) Lacrimal sac.
- vi) muscle is present only in 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 centralis 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.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 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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