

N.A



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Optomety-2022
Course Name – Ocular Anatomy
Course Code - BOPTOC201
(Semester II)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Choose the layer of the eye contains photoreceptor cells responsible for vision

- a) Cornea
- b) Sclera
- c) Retina
- d) Iris

(ii) Select the structure is responsible for regulating the amount of light that enters the eye

- a) Cornea
- b) Sclera
- c) Retina
- d) Iris

(iii) Select the part of the eye refracts light to focus it onto the retina

- a) Cornea
- b) Sclera
- c) Retina
- d) Lens

(iv) Select the transparent layer covering the front of the eye called.

- a) Cornea
- b) Sclera
- c) Retina
- d) Lens

(v) Choose the structure connects the eye to the brain

- a) Optic nerve
- b) Sclera
- c) Retina
- d) Lens

(vi) Select the muscle is responsible for moving the eye upward

- a) SR
- b) IR
- c) MR
- d) LR

(vii) Choose the secondary action of inferior oblique muscle

- a) Elevation
- b) Intorsion
- c) Extortion
- d) Adduction

(viii) Identify the type of cells are found in the conjunctiva that produce mucus

- a) Goblet cells
c) Fibroblasts
- b) Melanocytes
d) Keratinocytes
- (ix) Choose which muscles are acting for levodepression of eye
- a) superior oblique of right eye & superior rectus of left eye
c) superior rectus of right eye & inferior oblique of left eye
- b) superior rectus of right eye & superior oblique of left eye
d) superior oblique of right eye & inferior rectus of left eye
- (x) Select the name of the membrane that covers the white portion of the eye
- a) Cornea
c) Conjunctiva
- b) Sclera
d) Lens
- (xi) Identify at birth our eyeball size is how much from adult size?
- a) 0.6
c) 0.8
- b) 0.7
d) 0.9
- (xii) Select the corneal power at birth
- a) 43.5D
c) 51.2D
- b) 45.2D
d) 55.1D
- (xiii) Select the name of the region of the sclera where the optic nerve exits the eye
- a) Scleral sulcus
c) Lamina cribrosa
- b) Scleral spur
d) None of these
- (xiv) Identify the anterior layer of iris
- a) Anterior limiting layer
c) Anterior epithelial layer
- b) Stroma
d) Posterior pigmented epithelial layer
- (xv) Select which nerve supplied to sclera
- a) Ciliary nerve
c) Trochlear nerve
- b) Oculomotor nerve
d) Optic nerve

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write the name of the extraocular muscles (3)
3. Write the name of various part of the lacrimal system (3)
4. Discuss the nerve supply of the uvea (3)
5. Write the name of the various layers of the Retina from inward to outward. (3)
6. Explain various glands of the conjunctiva with a diagram. (3)

OR

- Explain the structure of the ciliary processes with a diagram. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain various structures of the lacrimal passages with a diagram. (5)
8. Discuss the origin, and insertion of the lateral rectus muscle and mention its nerve supply. (5)
9. Explain various components of the visual pathway. (5)
10. Describe the origin of different extraocular muscles with their nerve supply. (5)
11. Explain the intraocular part of the optic nerve. (5)
12. Illustrate with a diagram the microscopic structure of the iris. (5)

OR

- Illustrate with a diagram the microscopic structure of the ciliary body. (5)