

N.A



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomtry-2019/B.Optomtry-2020/B.Optomtry-2021

Course Name – Ocular Physiology

Course Code - BOPTO202

(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) Identify the correct type of photoreceptor cell which is more sensitive to light and responsible for night vision
- a) Rods
b) cones
c) Bipolar cells
d) Ganglion Cells
- (ii) R.I of aqueous humor is
- a) 1.5
b) 1.336
c) 1.4
d) 1.46
- (iii) Name the layer of the cornea is most affected by injury or disease
- a) Epithelium
b) Bowman's layer
c) Stroma
d) Descement's membrane
- (iv) Identify Which of the following is a condition characterized by the loss of flexibility of the crystalline lens and difficulty in accommodation.
- a) Astigmatism
b) Myopia
c) Hyperopia
d) Presbyopia
- (v) Name layer of the retina which contains the photoreceptor cells.
- a) Outer nuclear layer
b) Inner nuclear layer
c) Ganglion cell layer
d) Inner plexiform layer
- (vi) Types of collagen present in cornea
- a) Type I
b) Type IV
c) Type VI
d) All of the above
- (vii) Epithelium is
- a) 20% of total corneal weight
b) 10% of total corneal weight

10. Describe the physical properties of of Tear film (5)
11. Draw the figure of visual cycle with proper leveling. (5)
12. Illustrate with a flow chart the pathway of glucose metabolism in the crystalline lens (5)

OR

Discuss the mechanism of uveo-scleral and Trabecular meshwork drainage pathway. (5)
