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## **BRAINWARE UNIVERSITY**

## Term End Examination 2023 Programme – B.Optometry-2019/B.Optometry-2020/B.Optometry-2021 Course Name – Ocular Anatomy Course Code - BOPTO201 ( 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

- Choose the correct alternative from the following :
- (i) Volume of the orbital cavity is
- a) 25 ml

b) 30 ml

c) 35 ml

- d) 40 ml
- (ii) Lens Placode is developed from
  - a) Prosencephalon

b) Telencephalon

c) Deincephalon

- d) Mesencephalon
- (iii) Development of optic nerve takes place in \_
  - a) 5th Week

c) Endoderm

b) 7th Week

- c) 9th Week
- (iv) Cornea is developed from

d) 11th Week

- a) Surface Ectoderm

b) Mesoderm

d) None of them

- (v) Which wall is the thickest in orbital cavity?
- a) Lateral

c) Superior

- b) Medial
- (vi) Which one is the orbital muscle?
  - ------

c) Dilator muscle

- d) Inferior
- a) Muscle of Müller
- b) Sphincter Muscle
- (vii) How many bones are present in orbit?
- d) None of them

a) 5

b) 6

c) 7

- d) 9
- (viii) Major arterial circle of iris is formed by

	a) Long posterior ciliary artery c) Both a & b	d) None of them		
(ix)	How many vortex vein are present ?	11.3		
	a) 2	b) 3 d) 5		
	c) 4	•		
(x)	Radius of curvature of the anterior surface of the	b) 7.0 mm		
	a) 6.5 mm	d) 8.6 mm		
/v:\	c) 7.8 Corneal thickness in the center is	u/ 5.5		
(XI)		b) 0.7-0.8 mm		
	a) 0.5-0.6 mm	d) None of them		
/vii\	c) 0.8-1.2 mm Wing cell is present in	u) Helia er		
(^11)		b) Corneal Stroma		
	a) Corneal Epithelium c) Corneal Endothelium	d) None of them		
(xiii)	Keratocytes are found in	a, none or many		
(XIII)		b) Corneal Stroma		
	a) Corneal Epithelium c) Corneal Endothelium	d) None of them		
(xiv	Dua's layer present in between	<b>a</b> ,		
•0000	a) Epithelium and Bowman's layer	b) Descemet's and endothelium		
	c) Stroma and Descemet's	d) Bowman's and Stroma		
(xv)	Average axial length of the eye ball is	:		
	a) 22 mm	b) 24 mm		
	c) 26 mm	d) None of them		
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Group-B				
(Short Answer Type Questions) 3 x				5=15
2. Sketch a label diagram of visual pathway. (3)				31
Write down the many retinal cell types in alphabetical order.				3)
4. Explain each component of the lacrimal system by name.				3)
5. List the many anterior chamber angle structures by name.				3)
6. Discuss briefly various parts of the conjunctiva with a diagram.				(3)
OR				
D	siscuss the structure of the ciliary processes with	a diagram.	(	(3)
	Gro	oup-C		
	(Long Answer	Type Questions)	5 x	6=30
7.	Explain the cornea's nerve supply and the endot	helium's microscopic structure.		(5)
8.	8. Infer about the origin, insertion, and nerve supply of the particular muscle that helps in			(5)
	extorsion, elevation and abduction.			<b>\-</b> /
9.	9. Explain about the Superior rectus muscle's origin, insertion, and nerve supply.			(5)
10.	10. Explain the various parts of the visual pathway.			(5)
<ul><li>11. Describe how the extraocular muscles are innervated neurologically.</li><li>12. Draw a diagram to illustrate the main pathway for drainage of aqueous humor (AH) out of the eve</li></ul>				
12.	eye	or drainage of aqueous humor (AH) out of t	he	(5)
	-,-	OR		
	Discuss various structures of the anterior chamb	Or angle with a st		
	and an americal challing	ci angle with a diagram.		(5)