



## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025
Programme – B.Optometry-2021/B.Optometry-2022
Course Name – Binocular Vision-I
Course Code - BOPTOC502
(Semester V)

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) Choose the secondary action of inferior oblique muscle.
  - a) Elevation

b) Intorsion

c) Extortion

- d) Adduction
- (ii) Choose the antagonists muscle of medial rectus.
  - a) Superior rectus

b) Inferior rectus

c) Lateral rectus

- d) Inferior oblique
- (iii) Identify which nerve supplied to the superior rectus muscles.
  - a) Trochlear nerve

b) Oculomotor nerve

c) Optic nerve

- d) Abducens nerve
- (iv) Choose the secondary action of inferior rectus muscle.
  - a) Elevation

b) Intorsion

c) Extortion

- d) Adduction
- (v) Identify which nerve supplied to the inferior oblique muscles.
  - a) Trochlear nerve

b) Oculomotor nerve

c) Optic nerve

- d) Abducens nerve
- (vi) Identify which nerve supplied to the superior oblique muscles.
  - a) Trochlear nerve

b) Oculomotor nerve

c) Optic nerve

- d) Abducens nerve
- (vii) State the condition which gives rise to retinal dispairty.
  - a) ARC

b) Retinal rivalry

c) Suppression

- d) Disparity
- (viii) Choose corretly which is the carrier of principal visual direction.

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	a) Fovea Barasat, Korkata - 100125 c) Lens	b) Optic nerve d) Optic disc		
(ix)	x) Select the condition which is treated with patching.			
()	a) Amblyopia c) Confusion	b) Diplopia d) None of these		
(X)	Select which kind of stereopsis provides monocu			
(xi)	<ul><li>a) Local stereopsis</li><li>c) Fine stereopsis</li><li>Show the anomaly which is an age related disord</li></ul>	b) Global stereopsis d) Coarse stereopsis er of accommodation.		
	a) Accommodative excess c) Accommodative insufficiency	b) Accommodative infacility d) Presbyopia		
(xii)	xii) Choose the correct term in which dissimilar contours when presented to corresponding retinal areas, fusion becomes impossible and it gives rise to.			
	a) Simultaneous Macular perception c) Retinal rivalry	b) Fusion d) ARC		
(xiii)	Select the correct response when we detect pres over RE and green lens over LE.	ence of fusion with WFDT with red lens		
	a) 2 Red	b) 3 Green		
(xiv)	c) all four lights Select the correct response when we detect pres red lens over RE and green lens over LE.	d) Five lights ence of LE Suppression with WFDT with		
	a) 2 Red	b) 3 Green		
(xv)	c) all four lights  Name 1st grade of binocular vision.	d) Five lights		
	a) Stereopis c) Fusion	b) Simultaneous Macular perception d) Suppression		
	Grou	р-В		
	(Short Answer Ty		3 x 5=15	
<ol> <li>Explain the management strategy of accommodative insufficiency.</li> <li>Explain the management strategy of convergence insufficiency.</li> </ol>		(3)		
	eplain the management strategy of convergence in	sufficiency.	(3)	
	plain the procedure of Frisby test for stereopsis as	ssessment.	(3)	
af	ee 11 years old patient come to your clinic and having complaints of headache with eyestrain (3) er 10 minutes of reading. His MAF OD and OS is 10 cpm, BAF is 1 cpm, difficulty with plus as. Explain what you will suspect for that patient and what other possible finding you will			
	et?	A STATE OF THE STA		
	OR IN SECURITION OR IN SECURITION OF THE SECURIT			
af pl	the 20 years old patient come to your clinic and having complaints of headache with eyestrain (3) fter 10 minutes of reading. His MAF OD and OS is 15 cpm, BAF is 1 cpm, difficulty with both lus and minus lens. Explain what you will suspect for that patient and what other possible nding you will get?			
	avishimus hon in			
	<b>Grou</b> (Long Answer Ty		5 x 6=30	
7. [	Discuss heteronymous and homonymous patholog	ical diplopia.	(5)	

8.	Explain origin, course and insertion of superior rectus.	(5)
9.	Explain the clinical tests that is necessary to differentiate between Accommodative	(5)
	Insufficiency and Ill-sustained Accommodation.	(-)
10.	Explain the clinical tests that is necessary to differentiate between Accommodative Infacility	(5)
	and Fusional vergence dysfunction.	10)
11.	One 25 years old patient come to your clinic and having complaints of headache with	(5)
	eyestrain while reading. His NRA is +0.50 Dshp and PRA is -3.00D. MAF is 11 cpm in both eyes.	(3)
	What you will suspect for this patient. Discuss other clinical features for this patient.	
12.	Explain the clinical tests that is necessary to differentiate between Convergence Insufficiency	(5)
	and Convergence excess.	(5)
	OR	
	Explain the clinical tests that is necessary to differentiate between Accommodative	(5)
	Insufficiency and Accommodative excess.	(5).

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