



## **BRAINWARE UNIVERSITY**

## **Term End Examination 2023-2024** Programme – B.Optometry-2021/B.Optometry-2022 Course Name - Ophthalmic Lens & Dispensing Optics-I **Course Code - BOPTOC303** (Semester III)

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

a) Heavy

1.	Choose the correct alternative from the johowing	g :
(i)	Name the Refractive index of Trivex	
	a) 1.523	b) 1.76
	c) 1.423	d) 1.56
(ii)	Select the parmanent marking of PAL	200
	a) Distance references circle	b) Fitting cross
	c) micro-etching	d) None
(iii)	Select the temporary marking of PAL	
	a) Fitting cross	b) micro-etching
	c) Logo	d) add power
(iv)	Write the distance between the nasal horizonta	I indicator and prism references point
	a) 17 mm	b) 34 mm
	c) 17 nm	d) 34 nm
(v)	Crown glass are used for:	
	a) Single vision	b) Bifocal
	c) Trifocal	d) All
(vi)	Write the Two form of high index lenses is:	
	a) Glass high index(GHI)	b) Plastic high index(PHI)
	c) Both	d) None
(vii)	Name the 1st inventer of split bifocal lens	
	a) Benjamin Franklin	b) Morick.
	c) John Borsch	d) None of the this
(viii)	Tell the advantage of Benjamin Franklin's bifocal	l: 4
	a) Large field of view.	b) Dust accumulation at dividing line.
	c) More time and labour required	d) None.
(ix)	Select the properties of plastic lenses:	

b) Not preferred for children

(x)	c) High impact resistance Identify the test which we us	se to check the im	d) None pact registance		
(-4	a) Taber test		b) Steel wool test		
	c) Drop ball test		d) None of the this		
(xi)	Choose the correct answer:	Abbe value of poly	17 t		
	a) 30		b) 40		
	c) 50		d) 60		
(xii)	Choose the following advant	ages of trivex			
	a) Excellent Optics		b) 1.53 index, lenses may have thicker edges than other mat		
(xiii)	c) inability to be tinted darke Choose the following disady		d) None		
,	a) Cosmetically good		b) Magnification is reduced		
(xìv)	c) Thinner and lighter than o ) Select the correct answer: S		d) Greater distortion		
	a) 2.75		b) 3.25		
	c) -2.75		d) -3.25		
(xv)	Write down the another nar	ne of D-bifocal	•		
	a) Flat top bifocal c) split bifocal	17°4 -	b) upper curve bifocal d) None		
		Gro	up-B		
		(Short Answer T	-	3 x 5=15	
			· · · · · · · · · · · · · · · · · · ·		
2. lr	n which cases we prescribe the	e soft design PAL le	enses to the patients?	(3)	
3. G	iive the names of the three te	sts we can use to g	auge a lens scratch resistance.	(3)	
	Mentioned the clinical advanta		ges of PMMA lens materials.	(3)	
	xplain the disadvantages of po			(3)	
6. c	reate a chart to show the diffe		e round shape, solid curve, flat top	bifocal. (3)	
E	xplain the gray tint lens	2,05** 500 - 1,00	R	(3)	
_	Apiani the gray thit lens	45 45 11		(3)	
		Grou	un-C		
		(Long Answer T	•	5 x 6=30	
	,	1991			
7.	Solve thisToric transposition	LE: -3.00/+3.50 @	75 degree, Base curve +6.00	(5)	
	in the contract of the contrac				
10. Note the comparison between glass lenses and PMMA lenses.					
11. Explain the difference between the myodisc and minus lenticular lens design.					
12.	Explain, how will we remove t		om the spectacles lens surface?  R	(5)	
	Explain, what will happen who eye,	en a+3.00 D is dece	entered 5 mm away from the cente	er of the (5)	
			Highlight and the said		

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