N.A





BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Optometry-2019/B.Optometry-2020 Course Name – Optometric Optics II Course Code - BOPTO401 (Semester IV)

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) Near PD can either be measured or calculated. When measured, the distance from the dispenser's eye to the subject's eye should be:
 - a) the proposed working distance
- b) the near point of accommodation.
- c) 40 cm
- d) 33 cm
- (ii) When the frame front is tested for four-point touch, but only touches on the two temporal eyewires, the frame:
 - a) has face form

- b) is skewed
- c) is out of coplanar alignment
- d) has X-ing
- (iii) A situation where the frame front is somewhat twisted, with the planes of the two lenses being out of line with one another, is called:
 - a) X-ing

b) twisting

c) a skewed bridge

- d) wraparound
- (iv) Retroscopic tilt" is manifested:
 - a) When the top of the frame front is closer to the wearer's face plane than the bottom of the frame front.
 - c) When one lens is closer to the wearer's face plane than the other lens.
- (v) new bifocal wearer must:
 - a) drop the eyes to read a book.
 - c) drop the chin and head to engage in near work.
- b) When the bottom of the frame front is closer to the wearer's face plane than the top of the frame front.
- d) When one lens is higher on the wearer's face than the other lens.
- b) keep the head erect and drop the eyes to see the floor.
- d) All of these are correct
- (vi) How should bifocal height be positioned for a child?
 - a) At the lower edge of the pupil
- b) At the center of the pupil

	 c) Between the lower limbus and the lower edge of the pupil 	d) ₄	mm above the center of the pupi	I
(vii)	When a wearer's frames are both slipping down the most probable solution would be to:	ose and hurting behind the ears,		
	a) move the temple bend farther forward on the temple		ove the temple bend farther back	on the
(viii)	 c) increase the temple spread. A thick lens has a convex front surface and a pla statementsabout this lens is true? 	d) de	ocrease the hridge size	3
	a) The front vertex power is greater than the back vertex power		ne back vertex power is greater the	an the
<i>t</i> :	Front and back vertex powers will be equal.	d) Su	uch a lens will always have the seg	on the
(IX)	Name the material which is \'nylon based\' and	hypo	allergenic in nature?	
	a) Cellulose acetate		plyamide	
, ,	c) Aceto propionate		olycarbonate lens	
(x)	Benjamin Franklin bifocal also known as	100	ay and a strate letts	
	a) Solid curve bifocal	b) sr	lit bifocal	
<i>1</i> 1	c) fused bifocal	اء الم		
(XI)	In round shape bifocal the near segments consi	st of:		
	a) Intermediate power	b)	Near power	
,	c) Distance power	41	Manage	
(xii) Which of the following disadvantage of Benjam	in Fra	nklin's bifocal:	
	a) Less chromatic aberration	b)	No vertical image jump.	
(xii	c) Dividing line produce reflection. i) Advantages of Kryptok bifocal:	d)	All of the above.	
	a) Light weight	b)	lenses can produce in laws	
	c) Segment do not fall out	d)	Lenses can produce in large quant All of the above	aties
(xiv	Disadvantages of Excecutive bifocal:	•	and the above	
	a) Heavy	b)	Ugly	
	c) The edge of segments chips easily	d)	All of the above	
(X)	 Used primarily for sport or safety purpose 	:S		
	a) polycarbonate c) Kevlar	b) O _l		
	Cuen	D		
	Grou (Short Answer Ty			
	(Shore Allawer Ty	pe Qu	iestions)	3 x 5=15
2.	Write the procedure of Near IPD mesurement for	dicnor	and Ali	
3.	When we prescribe the polaroid lenses? What are	the li	mitation of the spectacles.	(3)
4.	explain the UV coating.			(3)
5.	Explain the Pantoscopic tilt and its importance in c	phtha	almic practices	(3)
6.	RE: -2.00 Osph with decentration 4 mm nasally and	d LE: +	1.00 Dsph with decentration	(3)
			mm decemenation 3 mm	(3)
	OR Sumarize Trivey with advantage and disadvantage			
	Sumarize Trivex with advantage and disadvantage.	•		/2\
	Grou	n.C		(3)
	(Long Answer Ty	.be	Astions\	
	(=== <u>0</u> =================================	r- Qu	esuons) 5	x 6=30

7.	Describe the symatrical and asymmatrical design of PAL with their benefits in day to days practices.	(5)
8. 9.	What are the parameters we check before dispense the PAL to the patients? What is impact resistance? Explain the test which we used to check the impact resistance of any ophthalmic lenses.	(5) (5)
11.	How to check the impact resistance of a lens? write down the advantage and disadvantage of crown glass. Compare between polyamide and gold filled frame materials which is used ophthakmic industry.	(5) (5) (5)
	OR If the height of bifocal segments is slightly higher, what are the problems patients face and how will you solve the issue?	(5)
