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BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Optometry-2021/B.Optometry-2022/B.Optometry-2023 Course Name - Ophthalmic Lens & Dispensing Optics-II Course Code - BOPTOC401 (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.]

G	ro	u	n	-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Select the correct answer: Spherical equivalent -3.00/-0.50 @ 90

a) 2.75

b) 3.25

c) = C6

- d) -3.25
- (ii) When measuring the monocular and Binocular PD's:
 - Limbal edge may be used as reference
- b) Inner canthus of one eye to the outer canthus of the other eye used as reference
- Pupil centers are always used as a
- (iii) Which of the following materials are used in polycarbonet lens

a) Silver halied crystal

b) Silica

c) Both

d) none

- (iv) Glass lens refree to a
 - a) Mineral lens

b) organic materials

c) Both

d) none

- (v) Bifocal height is
 - a) Distance between lower eyelid and edge of
 - c) Distance between upper eyelid and edge of
- b) Distance between lower eyelid and edge of the lens
- d) none
- (vi) Scratch registance coating can be apply:
 - a) Only front surface

b) only back surface

c) both front & back surface

- d) None
- (vii) Polycarbonate lens absorb UV upto
 - a) 280 nm

b) 380 nm

c) 290 nm

- d) 390 nm
- (viii) Abbe value of polycarbonate lens

	11.20					
a) 30	b) 39 d) 49					
c) 59 (ix) Which of the following attributes are comes und						
a) Hydrophobic b) Oleo-phobic						
c) reduce ghost image	d) all					
(x) Tints done for:						
a) Cosmetic purpose	b) Protection from unwanted radiation	1 7				
c) Professional used d) All of the these						
(xi) Polarized coating used in:	L) ATA					
a) Water sports c) LCD's	b) ATM d) CCTV					
c) LCD's (xii) Which of the following design of PAL:	at Manufal control in a function of					
a) Mono design	b) Multi design					
c) Both a & b	d) None					
(xiii) In case of Symmetry lens design:						
a) Right and left design are separately.	b) Right and left design are same.					
c) The design changes according to the	d) None of the these					
additional power	of DB) club					
(xiv) Polycarbonate lens was developed in the year						
a) 1970s c) 1990s	b) 1980s d) 2000s					
c) 1990s (xv) Types of barium crown glasses:	4, 2000					
a) Light barium crown glass	b) Dense barium crown glass					
c) Both 'a' & 'b'	d) None					
	up-B	x 5=15				
(Snort Answer	Type Questions) 3	K 5 15				
2. Discuss the facial wrap, frontal angle and splay al	ong with their uses.	(3)				
3. Explain the frame selection criteria for the patients.						
4. Describe the different types of nose bridge in spectacles.						
5. Write the procedure of distance IPD measurement for dispensing the spectacles in children.						
6. A 30-year-old male patient came to the clinic with his new glasses and reported that when he looked through the glasses the objects were smaller in size, The prescription shows: RE:						
-4.00 Dsph, LE: -5.00 Dsph, how will you manage	the patient?					
	OR Section 1	(3)				
A 50-vear-old male patient came to the chine with his brooks specialist						
that unable to see clear distance vision, evetime clear distance vision, how would you manage the	ne needed to tilt his head forward to get					
clear distance vision, now would you manage the	patient.					
Gro	oup-C					
		5 x 6=30				
		/F)				
7. Draw the diagram of right eye PAL and explain	all the marking of progressive additional	(5)				
lens.	erials to the children	(5)				
o. Explain, why we can expect the glass letter the six functions						
10. A 23-years-old girl came to the clinic with the o	10. A 23-years-old girl came to the clinic with the complaint of a broken image whenever she (5)					
tries to see through her new glasses, The prescription shows RE: -1.50/-1.00X90, and LE:						
-0.75/-1.25X85, what will be the possible causes and how will you correct it?						
11. A 55-years-old male patient came to the clinic with his new progressive additional glasses (5) and complained that he could not read the book at his normal position, and needed to tilt						
and complained that he could he read the se						

his head too far back to get clear vision, what are the possible causes and how will you manage the patient?

12. A 47-year-old male patient came to the clinic with the complaint that he was unable to see (5) distant objects like the TV, and road signal with his new progressive additional glass, what are the possible causes and how will you manage the patient?

OR

A 20-year-old male patient came to the clinic with a complaint of double vision with his glasses, what would be the possible reason and how will you manage the patient?

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