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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomety-2021

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.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

(i) Tints done for:

- a) Cosmetic purpose
- b) Protection from unwanted radiation
- c) Professional used
- d) All of the these

(ii) Polarized coating used in:

- a) Water sports
- b) ATM
- c) LCD's
- d) CCTV

(iii) Name the frame material which is 'nylon based' and 'hypoallergenic' in nature:

- a) Cellulose acetate
- b) Polyamide
- c) Aceto propionate
- d) All of the above

(iv) Select the correct use of freshnel prism

- a) stop diplopia
- b) correct distance vision
- c) correct near vision
- d) None of these

(v) Select the correct statements from the following

- a) Will fit prism with your glasses using water
- b) Will fit prism with your glasses using hit
- c) both a & b
- d) None of these

(vi) Which are the following materials are use in plastic lens

- a) CR39
- b) Trivex
- c) Polycarbonate
- d) all

(vii) CR39 is a

- a) Thermosetting materials
- b) thermoplastic materials
- c) both
- d) none

(viii) Refractive index of PMMA

- a) 1.49
- b) 1.59
- c) 1.69
- d) 1.79

- (ix) Which of the following lens is good for children
 a) Glass lens
 b) polycarbonate
 c) none
 d) both
- (x) write the metal frame materials
 a) OPTYL
 b) Polyamide
 c) Cerbon fiber
 d) Titanium
- (xi) Select the correct answer: Spherical equivalent +3.00/-0.50 @ 90
 a) 2.75
 b) 3.25
 c) -2.75
 d) -3.25
- (xii) Select the parmanent marking of PAL
 a) Distance references circle
 b) Fitting cross
 c) micro-etching
 d) None of these
- (xiii) Select the use of micro-etching in PAL
 a) relocated the marking
 b) identify the distance power
 c) Identify the near power
 d) None of these
- (xiv) Write the distance between the nasal horizontal indicator and prism references point
 a) 17 mm
 b) 34 mm
 c) 17 nm
 d) 34 nm
- (xv) Tell the name of the thermoplastic materials
 a) Cellulose acetate
 b) Optyl
 c) both a & b
 d) None of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. How will we measure the side angle or pantoscopic angle? (3)
3. Discuss the steps of measuring the bifocal height in the bifocal spectacles lens. (3)
4. Patients having difficulty " need to tilt head forward for distance" .what would be the possible causes and find the solution? (3)
5. Solve the following problem: Simple transposition: RE +3..25/+2.00 @ 90; LE +2.25/-1.50@ 50 (3)
6. Write the name of all the parameters we cheek before dispense the spectacles to the patients. (3)

OR

- Write the procedure of Near IPD measurement for dispense the spectacles. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. What are the parameters we check before dispense the PAL to the patients? (5)
8. Toric transposition: -2.50/+3.25 @ 50 and Base curve +3.00 (5)
9. What are the parameters we should consider when we choose a spectacle lens for kids? (5)
10. Express the Nylon Jaw Pliers and Finger Piece Pliers along with their functions in ophthalmic dispensing. (5)
11. Discuss the Pad Adjusting Pliers and Soldering along with their functions in ophthalmic dispensing. (5)
12. In the case of round face what types of the frame we should choose for the patients and why? (5)

OR

- In the case of oval face what types of the frame we should choose for the patients and why? (5)
