MASTER OF OPTOMETRY F. Y. M. Optom. : SUMMER – 2022 SUBJECT : APPLIED OPTICS

Day: Monday

Time: 10:00 AM-12:00 PM

Date: 21-11-2022

S-802-2022

Max. Marks: 50

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- 1) Answer **Section A** and **Section B** on **SEPARATE** answer sheets.
- 2) Section A is of objective questions for total 20 marks.
- 3) Section B is of short questions for total 30 marks.

		SECTION – A	
Q.1	Fill in	the blanks:	(20)
	i)	Accommodative infacility can be treated by	
	ii)	The technique of retinoscopy used in patients with media opacity is	
	iii)	Night myopia is caused by	
	iv)	OKN is method of measurement of visual acuity.	
	v)	In schematic eye refractive index of cornea is	
	vi)	Use of Pilocarpine causes a shift in refraction.	
	vii)	One foot candle is equal to lumens.	
	viii)	The duochrome test depends upon aberration.	
	ix)	Kestenbaum's formula for calculating near add is	
	x)	Antireflection coating removes the reflected light by interference.	
	xi)	Lag of accommodation is defined as	
	xii)	Shape of target shown during JCC should be	
	xiii)	High uncorrected astigmatism can lead to type of amblyopia.	
	xiv)	technique is used to refine axis of astigmatism by objective method.	
	xv)	If refractive index of vitreous humor increases, refractive error shifts towards	
	xvi)	One disadvantage of Fresnel prism compared to a ground in prism is	
	xvii)	The power of prism is determined by its	
	xviii)	plots can determine the success of a PAL design.	
	xix)	In patients with severe peripheral field loss, devices can be used to enhance the visual field.	
	xx)	The position of circle of least confusion of a sphero-cylindrical lens when incident light is parallel is given by PTO	

SECTION B

Q.2 Answer ANY SIX of the following

(30)

- i) Write a note on chemical toughening and drop ball test.
- ii) What are the problems that can be faced by a person wearing PALS for the first time and how will you manage them as on optometrist?
- iii) Write about various tints and their specific uses and features.
- iv) Write about all the latest PAL designs.
- v) What is contrast sensitivity? Write about two conditions where it is affected. Mention about three contrast sensitivity charts and write about them in brief.
- vi) What is binocular balancing? Why is it done? Name five methods to do binocular balancing and explain one of them in brief.
- vii) Write a note on ARC on ophthalmic lens surface.
