CERTIFICATE IN DISPENSING OPTICS (CDO)

00098

Term-End Examination December, 2015

OAH-005: PROGRESSIVE LENS

Time: 90 Minutes Maximum Marks: 30

Note:

- (i) There will be multiple choice type of questions in this examination which are to be answered in **OMR Answer Sheets**.
- (ii) All questions are compulsory.
- (iii) Each question will have four options and only one of them is correct. Answers have to be marked in figures in the appropriate rectangular boxes corresponding to what is the correct answer and then blacken the circle for the same number in that column by using HB or lead pencil and not by ball pen in **OMR Answer Sheets**.
- (iv) If any candidate marks more than one option, it will be taken as the wrong answer and no marks will be awarded for this.
- (v) There will be 30 questions in this paper and each question carries one mark.
- (vi) There will be no negative marking for wrong answers.
- (vii) No candidate shall leave the examination hall at least for one hour after the commencement of the examination.

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1.		cals help by providing fixed amount of extra power, while trifocals provide two, ally in steps of one diopter or more.
	(1)	True
ÿ.	(2)	False
	(3)	None of the above
	(4)	Can't say
2.	Wit	th a progressive lens the eye can find some region of the progression zone where
	the	power is correct for the viewing distance.
	(1)	True
,	(2)	False
	(3)	None of the above
	(4)	Can't say
3.		nen there is a need of separate corrections for distance, intermediate and near ion, prescription can be given in one pair of spectacles as trifocal lenses.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
4.		dispensing a pair of progressive power of lenses, it is imperative to ensure that h lens is correctly positioned with respect to the pupil.
	(1)	True
	(2)	False
	(3)	None of the above
	(4)	Can't say
5.		e surface astigmatism inherent in progressive lenses produces a significant amount ylinder power, which the wearer perceives as blur.
	(1)	True
•	(2)	False
	(3)	None of the above
	(4)	Can't say
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6.		design concentrates the ressive corridor and ne			into sma	11 regions	aqjacent t	tne
	(1)	True						
	(2)	False						
	(3)	None of the above		*				
	(4)	Can't say						
			, .			. •		•
7.		able power lenses related by the wearer.	ly on som	e mechanic	al means	of adjus	ting the po	ower,
	(1)	True		•				
	(2)	False						
	(3)	None of the above					•	
	(4)	Can't say						
								•
8.		ntage of wider field matism.	of clear	vision prod	uces highe	er amour	nts of unwa	ınted
	(1)	True						
	(2)	False					•	
	(3)	None of the above						
	(4)	Can't say	•	•				
9.	A gin	gle vision reading lens	s consists c	nf a sinole er	here of an	nronrista	radius prov	iding
υ.		ction for near vision of	the state of the s	n a single sp	Alcre of ap	propriete	radius prov	iding
	(1)	True	. •					•
	(2)	False					•	
ċ	(3)	None of the above					•	
**	(4) .	Can't say	: :					
10	****	1. (41. (11.)	1	C 1-11:	41 41	4 * 1 4	· _ 1	
10.		ch of the following is the lens as perceived by		_	_	eticai opt	icai periorn	iance
		Ray tracking					, 1	
		Ray tracing						
		Both (1) and (2)				N. C. L.		
		None of the above						
	(4)	none of the above						

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11.	The	re is no image
	(1)	Shift in PALs
	(2)	Jump in PALs
	(3)	Both (1) and (2)
	(4)	None of the above
12.		nsure which of the following types of fusion, the retinal images formed in each must be similar in all directions of gaze?
	(1)	Sensorial
	(2)	Motor
	(3)	Both (1) and (2)
	(4)	None of the above
13.	The	eyes naturally
	(1)	Diverge while gazing for near
	(2)	Converge while gazing for near
	(3)	Both (1) and (2)
	(4)	None of the above
14.		rter corridors produce more of which of the following power changes and higher is of astigmatism?
	(1)	Rapid
	(2)	Slow
	(3)	Moderate
	(4)	None of the above
15.		ch of the following lenses claims to provide natural vision like a young vidual?
	(1)	Progressive lenses
	(2)	Bifocal lenses
	(3)	Single vision lenses
	(4)	Trifocal lenses
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16.	A sir	ngle vision reading lens consists of a	of appropriate radius providing
	corre	ection for near vision only.	
	(1)	Single sphere	
	(2)	Double sphere	
	(3)	Triple sphere	
	(4)	None of the above	
	(1)	110110 01 1110 111011	
17.	The	"Twin Rx Technology" is/are	
	(1)	Wavefront Management System	
•	(2)	Point by Point Twinning	
	(3)	Both (1) and (2)	
,	(4)	None of the above	
18.	Pup	illometer is used for	
	(1)	Pantoscopic tilt measurement	
٠,	(2)	Facial wrap	
	(3)	IPD measurement	
	(4)	None of the above	
	: •		en e
19.	Phy	sical measurements of a new progressive addit	tion lens are supplied in the form of
	(1)	The Grid and Contour Plot	
	(2)	The Eye-Path Profile of Progression	
	(3)	Three-Dimensional Topographical Plot	
	(4)	All of the above	
20.	Ear	rly progressive lenses were	
	(1)	Asymmetrical in design	•
	(2)	Symmetrical in design	
	(3)	Both (1) and (2)	
	(4)	None of the above	
	(4)	HOTTE OF MIE SPOAE	

21.	Soft	design has a long progressive
	(1) .	Corridor
	(2)	Cord
	(3)	Rod
	(4)	None of the above
22.	Ear	ly designs of progressive power lenses are
	(1)	The Owen Aves lens
	(2)	The Gowlland lens
	(3)	Both (1) and (2)
	(4)	None of the above
23.	Тур	es of variable power lenses are
	(1)	Double lens systems
	(2)	Deformable lenses
	(3)	Both (1) and (2)
	(4)	None of the above
24.	ster	vision includes simultaneous perception, fusion of the images and the eoscopic sense.
	(1)	Binocular
	(2)	Single
	(3)	Both (1) and (2)
	(4)	None of the above
25.	Adv	antages of progressive lenses are
	(1)	No visible segments or lines of demarcation
	(2)	Clear vision at all distances
	(3)	No unwanted differential image displacement or jump
	(4)	All of the above
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26.	Unw	vanted Astigmatism is influenced by			•	
	. (1)	Add power			•	
	(2)	Length of progressive corridor				•
	(3)	Width of distance and near zones				
	(4)	All of the above				
27.	The	principal parameters of a progressive additi	on lens	s are interr	elated and i	nclude
	(1)	The size of the distance and near areas				
	(2)	The types and intensity of the aberrations				
	(3)	The depth and usable width of the progress	sive co	rridor		
	(4)	All of the above				
28.	The	limitation of the hard design is				
	(1)	Low aberration				
	(2)	High aberration		4 × 4 × 1		
	(3)	Clear vision				
	(4)	None of the above				
29.		ich of the following is the inclination of the n a vertical plane?	e botto	om of the l	ens towards	the face
	(1)	Pantoscopic tilt				
	(2)	Splay angle				
	(3)	Frontal angle				
	(4)	Back angle		. •		
90	Tn -	progressive addition lenses, increase in powe	r is co	used by an	increase in	,
30.	-		i is ca	used by an	mcrease m	
	(1)	Curvature in the progressive zone			• .	
	(2)	Radius in the progressive zone			, 14.	•
	(3)	Diameter in the progressive zone				•
	(4)	None of the above				