Sl.No. M21669a Course Code: 27417203

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

B.OPTOMETRY DEGREE EXAMINATION – August 2019Second Year

OPTOMETRIC INSTRUMENTS AND CLINICAL EXAMINATIONS OF VISUAL SYSTEM

Time: Three hours	Maximum: 80 marks				
I Choose the best answer	$(10 \times 1 = 10)$				
1. For a patient complaining distortion, the following test is mandatory					
a) Ishihara	b) FACT				
c) Hiding Heidi	d) Amsler Grid				
2. Worth four dot test can be used to test					
a) Color matching	b) Supression				
c) Depression	d) Visual acuity				
3. Corneal thickness can be measured using					
a) Palcido's disc	b) Keartometer				
c) Pachymeter	d) TBUT				
4. The following are true about the first spike in A scan EXCEPT					
a) It is the tallest	b) Represents where the probe				
	interface meets the cornea				
c) Represents where the probe	d) Is produced by sound wave				
interface meets the lens					
5. '3' in 3/60 represents the					
a) Working distance	b) Testing distance				
c) Patients ability to see	d) The retinal area of illuminance				
6. Corneal negative a – wave in ERG is light induced					
a) Hyper polarization of	b) Hyper polarization of amacrine				
photoreceptor cells	cells				
c) Hyper polarization of bipolar	d) Hyper polarization of ganglion				
cells	cells				
7. All are true about balie – lovie designs E	EXCEPT				
a) Constant ratio from one size to	b) Same number of letters in each				
next	line				
c) Spacing between letters is equal	d) Equal legibility at each level				
to the letter size between the					
penultimate line					

	rinciple of scanning laser polarimetry is										
	a) Diffraction and retardation		Birefringence and								
C	e) Reflection and polarization	d)	Diffusion and retain	rdation							
9. CSM in visual acuity measurements, stands for											
a	a) Controlled steady maintained	b)	Central steady mai	ntained							
C	e) Central srous mmacula	d)	Central steady mad	cular							
10.MRD I in ptosis evaluation is the distance											
a	r) From the margin of the upper lid to the central corneal reflex	b)	From the margin o to the central corne								
C	c) From the margin of the upper lid	<u>d)</u>	From the margin o								
	crease to the central corneal	u)	crease to the centra								
	reflex		reflex	ii comeai							
	Terrex		Terrex								
II. F	Fill in the blanks:			$(10 \times 1 = 10)$							
1	. Each letter in logMAR represents		log units.								
	2. More than 50 seconds of recovery time in photostress test is an indication										
of defect in											
3. RAPD is detected with help of test.											
	4 helps to measure vertex distance.										
 is a localized defect or depression in the visual field. "R" in ROPLAS stands for A dilated pupil that is non- reactive to a light source, together with ptosis suggests a nerve palsy. Optic disc is a sign of papilledema, papillitis or ischemic optic 											
						neuropathy.					
						9. Bitot spots are seen in					
							0.Applanation tonometer is based on		Law		
III S	State whether the following statements ar	e T	RUE or FALSE	$(10 \times 1 = 10)$							
	. Cresent shape disc is seen in hyperope	s.									
	2. In HFA, $40 \text{ dB} = 1 \text{ asb.}$										
	3. Park's 3 step test is used to test for Late	eral	Rectus palsy.								
	4. Near IPD is lesser than distance IPD.										
3	5.Slit lamp uses glass slabs between the eyepiece and objective lens to reinvert the image.										
6	5.B in B scan stands for Brightness.										
7. Aqueous flares are best seen with conical beam.											
8.A montage image of funds captures 7 fields.											
9. Arden ratio is calculated in ERG.											
10	0. Videokeratoscope uses corneal tear film	m a	s mirror.								

IV Answer any **FIVE** of the following:

 $(5 \times 6 = 30)$

- 1. Write in short on
 - a. Brightness acuity meter
 - b. Pupilometer
- 2. Write on the reliability indices of a Humphrey visual field analyser.
- 3. Which parts of the retina does the following test? What is the illumination required to do these tests?
 - a. ERG
 - b. VEP
 - c. EOG
- 4. Synaptophore
- 5. Filters used on ophthalmoscopes and their uses.
- 6. Contents of a trial box and its uses.
- 7. FM 100 hue test Procedure, principle and documentation.

V Write an essay on any **TWO** of the following:

 $(2 \times 10 = 20)$

- 1. Write in detail on examination of
 - a. Lids, conjunctiva
 - b. Cornea
 - c. Lens
 - d. Iris
- 2. Write on types of retinoscopes available, their special features and characteristics of reflexes.
- 3. Illustrate optics of a manual lensometer and its explain its working, Compare and contrast manual and automated lensometer.

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