Sl.No. M21128 Course Code: 2740203

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

## **B.OPTOMETRY DEGREE EXAMINATION – March 2019**Second Year

## OPTOMETRIC INSTRUMENTS AND CLINICAL EXAMINATIONS OF VISUAL SYSTEM

Time: Three hours	Maximum: 80 marks
I. Choose the best answer:	$(10 \times 1 = 10)$
<ol> <li>Pupillometer is used to a a) IPD</li> <li>Nose Bridge</li> </ol>	b) GCS
<ul><li>2 which st indented or applanated.</li><li>a) Imbert Fick Law</li><li>c) Indentation Law</li></ul>	ates IOP equals force on the cornea to the area  b) Thumbs Law d) Malus Law
<ul><li>3. Retinoscopy works on a</li><li>a) Schineir</li><li>c) Badal</li></ul>	principle called b) Foucault d) Archimedes
<ul><li>4. Ishihara test is based on</li><li>a) Color matching</li><li>c) Color coding</li></ul>	<ul><li>b) Color confusion</li><li>d) Hue discrimination</li></ul>
5. 1M unit equals a) N5 b) N4 c) N8 d) N6	
<ul><li>6. Aqueous flare is best see</li><li>a) Parallopiped illumina</li><li>c) Transillumination</li></ul>	
<ul><li>7. A in A-scan stands for</li><li>a) Axial length</li><li>c) A single</li></ul>	<ul><li>b) Aplanatic</li><li>d) Amplitude</li></ul>
<ul><li>8. The following are chara</li><li>a) Brilliance</li><li>c) Slit</li></ul>	cteristics of retinoscopic reflex EXCEPT b) Width d) Speed
9. The middle mirror in go a) 67° c) 35°	oldmann three mirror lens is inclined at b) 57° d) 45°

(	(2)	
<ul><li>10. "F" in FOLDARG stands for</li><li>a) Frequency</li><li>c) Feeling</li></ul>	b) Family d) Fusiform layer	
II. Fill in the blanks:		$(10 \times 1 = 10)$
<ol> <li>Red filter is used to observe</li></ol>	as mirror.  log units. of lens. are. is called as angletect	
III. State whether the following statem	ents are TRUE or FALSE	$(10 \times 1 = 10)$
<ol> <li>Placido's ring uses the reflection p</li> <li>A 6/6 target subtends 5 min arc A</li> <li>Pachymeter and anterior scan – O</li> <li>Simultaneous macular perception</li> <li>Defects in iris can be seen through</li> <li>GDx is based on birefringence of</li> <li>Exopthalmometer is used to evalu</li> <li>Distometer helps to measure corne</li> <li>Pentacam is based on the Scheimp</li> <li>Bausch &amp; Lomb keratometer has</li> </ol>	T 6 m. CT are used to measure corn is grade II of BSV. In retro illumination. Innerve fibre layer. In ate ectropion. In eal curvature. In of lug principle.	eal thickness.
IV. Write any FIVE answers of the fo	llowing:	$(5 \times 6 = 30)$
<ol> <li>Compare and contrast a direct and</li> <li>Illustrate and explain the optics of</li> <li>Corneal topography measurements</li> <li>Write on headache history and birt</li> <li>Write on pediatric visual acuity ch</li> <li>Write on (a). APGAR score (b). Co</li> <li>Write on the reliability indices of a</li> </ol>	a manual lensometer.  h history. arts. SM (c). ROPLAS.	yser.
V. Write any TWO essays of the follo	wing: (2	$2 \times 10 = 20$

1. Write in detail about various slit lamp techniques and what are they used for.

2. Write on all macular function tests.

3. Write on (a). Unilateral cover test (b). Alternate cover test (c). Illustrate the cover test findings if the right eye had exotropia.