Sl.No. M21672 Course Code: 2740302

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

B.OPTOMETRY DEGREE EXAMINATION – August 2019Third Year

CONTACT LENS

Time: Three hours	Maximum: 80 marks
I Choose the best answer	$(10 \times 1 = 10)$
1. Which of this is not option toa) 0.5mm to Avgkc) 4 D to Avgk	select BOZR of SCL? b) 0.3- 0.9mm to flat K d) 1mm to Avgk
2. Oxygen permeability is a proja) Corneac) Contact lens solution	perty of b) Contact lens material d) Both A & B
3. Which of the following is nota) Cleaningc) Lubricating	t an action of lens care system? b) Rewetting d) Rmoving microrganisms
	nal fitting. The power of trial lens is -9.00 and is 9.50. The over refraction value is +2.00. pecification? b) 7.80/ -6.50/ 9.50 d) 7.80/ -9.50/ 9.50
5. On average, the PH of normal a) 6.7 c) 7.9	l human tears is: b) 7.2 d) 8.5
has: a) Lower gas transmissibility b) Higher gas transmissibility c) Higher gas transmissibility d) Lower gas transmissibility 7. In altering the fit of a soft cortrue? a) Increasing the total lens dia b) Reducing the back optic zo c) Reducing the total lens dia	and greater rigidity and lower rigidity and greater rigidity ntact lens on the eye, which statement is NOT ameter will decrease the sagittal height. one radius (BOZR) will tighten the lens fit.
8. Thimerosal is a useda) Viscosity enhancing agentc) Disinfecting	

9. Wearing contact lens only while	e the eyes are open is defined a	as
a) Daily wear	b) Extended wear	
c) Flexible wear	d) Continuous wear	
10. Which one is not a disadvantage of scleral contact lens:		
	b) Specialist fitter	
c) Expensive	d) Easily available	
II State whether the following statement	ents are TRUE or FALSE	$(10 \times 1 = 10)$
 Corneal storma contains 2- 3 % O Wichterle pioneered the conc Oxygen permeability is a lens p High water content lense are me Push up test is the least predicti Silicone hydrogels are generally Vertical bearing is seen against Solution sensitivity is due to according to the products. Pseudomonas aeruginosa is monkeratitis. 	rept of continuous wear soft correporty and not a material propore prone to pervaporation. we test for assessing the fit of a preferred for BCL. the rule astigmatism. cumulation of preservative from the standard section of the proportion of the p	perty. SCL. m lens care
10.Group I SCL is more prone to	deposits than Group IV SCL.	(10 1 10)
III Fill in the blanks:		$(10 \times 1 = 10)$
 devised the first contact According to Holden and Mertz lens should be more than Decreasing the total diameter w can be used to assess commoderates Layer is responsible for Conjunctival blanching is a commoderate cornea, BOZR should be Total diameter of RGP is selected Microbial keratitis is most commoderate commoderates RGP attract deposit 	the oxygen transmissibility formula	e. I to the cornea ens. Arger than HVID. _ wear SCL.
IV Write any FIVE answers of the fo	llowing:	$(5 \times 6 = 30)$
 A 30 year old patient comes to y -2.00DCx 90 and keratometer re What are the steps involved infinition will be the final lens prescription. What are the characteristics of a of disinfection. What is water melon seed princing. Write in detail about the test use. 	eading of K1:7.85 @ 90 K2: 7 atting this patient with an RGP on. disinfectant? Mention the variable? Explain with help of diag	.50 @ 180. lens. What ious methods ram.

- 5. What are the major complications due to SCL wear? Elaborate on any 3 of them.
- 6. What are types of prosthetic lens? Write the design and two indications for each.
- 7. Enumerate the advantages of SCL over RGP. Name few conditions in which RGP is indicated.

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

 $(2 \times 10 = 20)$

- 1. Write about (Assume the power and give final Rx wherever appropriate)
 - a. Trouble shooting in multifocal
 - i) Vision problem for Distance
 - ii) Vision problem for Near
 - b. Trouble shooting in Toric
 - i) Rotation of 10 to right
 - ii) 20 degree rotation to left
 - iii) Unstable rotation
- 2. What is toric SCL stabilization technique? Write in detail about each of the technique.
- 3. Explain with the help of diagram, the relationship between base curve and diameter to sag of a contact lens and radial, axial edge clearance. Write the rule of thumb for SCL and RGP.

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