Sl.No. M19249 Course Code: 2740302

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

B.OPTOMETRY DEGREE EXAMINATION – March 2019Third Year

CONTACT LENS

Time: Three hours		Maximum: 80 marks
I. Choose the best answe	er:	$(10 \times 1 = 10)$
	of% of water.	
a) 73 c) 78	b) 90 d) 85	
2 is an acel	,	
a) Epithelium c) Endothelium	b) Bo	wman's membrane ne of the above
3. Endothelium has apa) 500,000c) 160,000	<i>'</i>	polygonal cells 100,000 320,000
4. Which of the followa) Infinity in emmetc) Both a and b	-	es at Infront of the eye in Hyperopes None of the above
5 was the first a) Sir John Hersche c) Leonardo Davino		cept of contact lenses nomas Young one of the above
6. First trial set of contaa) Mullerc) Carl Zeiss	,	ed by ene Kalt ne of the above
7. An example of mea a) Overnight cornea c) DK/T	suring oxygen transmiss ll swelling	ibility, Invitro is b) EOP d) All the above
8. DK of Butyl Sterend a) 0 c) 25	b) 12	ne of the above
9. Siloxane acrylate'sa) Neutralc) Highly wettable	surface is	b) Negatively chargedd) None of the above
10. Rapid production of	of contact lenses is possi	ble in
a) Moldingc) Spin casting	•	b) Lathing d) a and b

II. State whether the following statements are TRUE or FALSE $(10 \times 1 = 10)$

- 1. Dana lens was the first commercially available disposable lens.
- 2. Rapid production becomes difficult with lathing.
- 3. High water content lenses have low refractive index.
- 4. Peripheral cornea is avascular.
- 5. Cornea is supplied by third nerve.
- 6. EDTA can act as a chelating agent.
- 7. For short term storage lens, storage solution can be changed on a weekly basis.
- 8. Vertometer helps us to measure the BC of a contact lens.
- 9. Corneal warpage is caused by hard lenses.
- 10. Thiomersal-containing solutions cause allergic conjunctivitis.

III .Fill in the blanks:

 $(10 \times 1 = 10)$

1. Hydro curve EW lenses are made of		
2toric lenses are preferred in patients with internal astigmatism.		
3 is the preferred fit in keratoconus.		
4 is the RGP material that can be used for EW.		
5 technique of manufacturing is preferred for high volume production.		
6. Hypertonic saline with bandage contact lens is used in		
7. Type A cosmetic ch is used in		
8 (spherical/aspheric) results in better vision & centration.		
9. Narrow edge results in fit.		
10. Vision getting blurred after blink happens in fit.		

IV. Write any FIVE answers of the following:

 $(5 \times 6 = 30)$

- 1. Write a brief account on tear lens system.
- 2. Discuss about the uses of cosmetic CL.
- 3. Write notes on SCL design.
- 4. List the contraindications of contact lens.
- 5. Discuss about the selection of BC and TD in CL fitting.
- 6. Discuss about low DK & High DK lenses.
- 7. Enumerate the advantages of SCL over RGP.

V. Write any TWO essays of the following:

 $(2 \times 10 = 20)$

- 1. Explain in detail about the CL fitting of keratoconus.
- 2. Describe in detail about the SCL fitting and assessment.
- 3. Write detailed notes on toric soft contact lens.
