Sl.No. M19249 Course Code: 2740302

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

B.OPTOMETRY DEGREE EXAMINATION – August 2018Third Year

CONTACT LENS

Time: Three hours	Maximum: 80 marks
I Choose the best answer	$(10 \times 1 = 10)$
1. Cornea is composed of % collager a)10 c) 18	b) 15 d) 20
2. Microplicae and microvilli are present ina) Surface epitheliumc) Endothelium	b) Descent membrane d) Bowman's membrane
3. Ground substance of corneal stoma area) Hydrophobicc) Non- polar	b) Hydrophilic d) None of the above
4 was the first to give sketches of a sa) Leonardo da vincic) Benvamin tranklin	chematic eye b) Thomas young d) Rene Descartes
5 can be described as father of contacta) Leonardo Da Vincic) Sir John Herschel	ct lenses b) Rene descartes d) Thomas young
6. Low oxygen transmissibility can result ina) Microcystsc) Corneal pH changes	b)Polymegathism d) All the above
7. Carbon dioxide permeability of lens materi a) 7:1 c) 21:1	al hydrogel is b) 14:1 d) 25:1
8. Wettability can be measured bya) DR/Tc) Sessile drop	b)EOP d) All the above
9. Oxygen permeability of PMMA is a) 25 c) 12	b) 0 d) None of the above
10. High cost per lens results in techna) Molding c) Lathing	nique b) Spin casting d) All the

II State whether the following statements are TRUE or FALSE	$(10 \times 1 = 10)$
 PMMA was the first material used for making contact lenses Molding is the cheapest method to start production High water content lenses are fragile Stroma contributes upto 60% of corneal thickness Glands of leis are sweat glands Boric acid acts as a disinfectant in CL solution Protein removal can be done on a weekly basis With the help of radiuscope, contact lens thickness can be mean Epithelial edema is usually reversible Sterile corneal infiltrates are caused by preservatives 	asured
III Fill in the blanks:	$(10 \times 1 = 10)$
 inactivates the metals in solution and prevents discoled. techniques of manufacturing gives high quality surfaction. has high optical quality and zero oxygen permeability. Diameter (TD) of PMMA lenses vary between mm. (front /back) curve determines the power of contact letter. Lens may ride (high/low) in case of tight lid laxity. Little or no movement of lens indicates a curve. Type c cosmetic CL is used in (Aspheric/spherical) results in better alignment. Wide edge results in fit. 	ee design y
IV Write any FIVE answers of the following:	$(5 \times 6 = 30)$
 Give a brief account of tear function tests List the uses of direct illumination in slit lamp examination Discuss about the materials used for RGP manufacturing Write brief notes on CL terminology Enumerate the indications of contact lens Give notes on RGP CL design What are the effects of RGP CL parameter changes on lens fitti 	ng?
 V Write any TWO essays of the following: 1. Discuss in detail about preliminary measurements and investigative fitting 2. Write in detail about RGP CL fitting assessment 3. Explain about the contact lens hygiene and after care 	(2 x 10 = 20) ations in CL