



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – May 2025 VI Semester

Class : III UG
Major : Optometry

Time: 3 Hours
Max. Marks: 100

22BOPC37 Contact Lens - II

Course Outcomes:

On the successful completion of the course, students will be able to

- CO1: To impart knowledge on multifocal contact lens fitting.
- CO2: To cognize fitting of contact lenses in special cases.
- CO3: To expertise fitting contact lenses in pediatric patients and inspect the role of Orthokeratology in management of Myopia.
- CO4: To unravel the mystery behind therapeutic and bandage contact lens.
- CO5: To ensure the lens care and instrumentation involved in fitting of contact lens.

Part A

10 x 1 = 10

Choose the Correct Answer

1. Soft toric contact lens is recommended, if the individual is having ___or more astigmatism? CO1 K1
 - a. $-/+ 0.50$ DC
 - b. $-/+ 1.50$ DC
 - c. $-/+ 0.75$
 - d. $-/+ 0.25$ DC

2. Reference line in soft toric contact lens refers to CO1 K1
 - a. Cylinder Axis
 - b. Cylinder power
 - c. Line helps to verify the alignment
 - d. Both a & b

3. Medium add in multifocal contact lens ranges between CO1K1
 - a. $+1.25D$ to $+2.00D$
 - b. $+0.50D$ to $+1.25D$
 - c. $+2.00D$ and more
 - d. $+0.50$ and less

4. On Soft Contact lens fitting, the BC should be _____ mm greater than the corneal curvature CO3 K2
 - a. $0.8 - 1mm$
 - b. $1 - 1.2mm$
 - c. $1.4mm$
 - d. $1.8 - 2mm$

5. The retinoscopic reflex seen in keratoconus is CO2 K2
 - a. with movement
 - b. against movement
 - c. scissor reflex
 - d. none of the above

6. The diameter of mini-scleral contact lens ranges between CO2 K1
 - a. $18.1mm - 24mm$
 - b. $12.9mm - 13.5mm$
 - c. $13.6mm - 14.9mm$
 - d. $15mm - 18mm$

7. BC in Ortho-K lens will be _____ than the central corneal curvature. CO3 K1
 - a. steeper
 - b. flatter
 - c. Ideal
 - d. All of the above

8. _____ contact lens is used as alternative to patching therapy in Amblyopia. CO3 K2
 - a. Opaque
 - b. Multifocal
 - c. Bandage
 - d. Colored

9. Multi-purpose contact lens solutions are used to _____ the contact lens. CO5 K2
 a. Rinse b. Clean
 c. Disinfect d. All of the above
10. Papain is derived from? CO5 K1
 a. Pumpkin seed b. Potato
 c. Papaya d. Paddy

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Explain about monovision and modified monovision. CO1 K2
 (or)
- 11.b. Write the different types of sports vision contact lenses and its applications. CO2 K2
- 12.a. Explain in brief about mini-scleral contact lens fitting. CO2 K1
 (or)
- 12.b. Differentiate between continuous, extended and frequent replacement contact lenses. CO4 K2
- 13.a. List the soft toric contact lens stabilization techniques. CO1 K1
 (or)
- 13.b. Describe the contact lenses used in pseudophakia. CO4 K1
- 14.a. Write the various contact lenses used myopia management. CO3 K2
 (or)
- 14.b. Write the uses of contact lens in different occupations. CO4 K2
- 15.a. Calculate the final soft toric contact lens power for the given power using LARS rule:
 - 4.00 DS/-1.50 DC * 110 with left rotation of 10 degrees
 + 3.50 DS/ -2.50 DC * 40 with right rotation of 13 degrees. CO1 K3
 (or)
- 15.b. Describe the various instrumentations used in contact lens practice. CO5 K2

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Explain soft toric contact lens fitting and assessment. CO1 K2
 (or)
- 16.b. Classify and explain contact lens options for presbyopia. CO1 K2
- 17.a. Explain contact lens fitting in aphakia. CO2 K2
 (or)
- 17.b. Describe various contact lens options for keratoconus. CO2 K1
- 18.a. Explain in detail about orthokeratology. CO3 K1
 (or)
- 18.b. Explain contact lens fitting in pediatrics. CO3 K1
- 19.a. Describe different types of therapeutic contact lens and its applications. CO4 K1
 (or)
- 19.b. Enumerate the complications of contact lens wear. CO5 K1
- 20.a. Explain in detail about the recent advancements in contact lens field. CO5 K1
 (or)
- 20.b. List out and explain the different lens care product and solutions CO5 K1
