



ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009

CONTACT LENS - II  
SEMESTER - 6



Time : 3 Hours ]

[ Full Marks : 70

GROUP - A

( Multiple Choice Type Questions )

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

i) Extended wearing is possible with

- |                   |                     |
|-------------------|---------------------|
| a) PMMA lens      | b) Hydrophilic lens |
| c) Steep fit lens | d) none of these.   |

ii) Bandage lens is used

- |                            |                                   |
|----------------------------|-----------------------------------|
| a) to cover the eye        | b) to protect the eye from trauma |
| c) for therapeutic purpose | d) none of these.                 |

iii) Aspheric back surface bifocal contact lens works best in

- |               |                 |
|---------------|-----------------|
| a) myope      | b) hyperope     |
| c) astigmatic | d) keratoconus. |

iv) More the sagittal depth of the C/L

- |                            |                            |
|----------------------------|----------------------------|
| a) Flatter is the lens fit | b) Steeper is the lens fit |
| c) No effect on lens fit   | d) None of these.          |

v) Which of the following is not an indication for therapeutic lens wear ?

- |                                |                            |
|--------------------------------|----------------------------|
| a) Bullous keratopathy         | b) Filamentary keratopathy |
| c) Meibomian gland dysfunction | d) Recurrent erosion.      |

6816 (11/06)

http://www.makaut.com/



vi) Piggy back-I refers to

- a) fitting of an RGP lens over a soft lens
- b) fitting of an RGP lens over a RGP lens
- c) fitting of an soft lens over a RGP lens
- d) none of these.

vii) Temperature used for heat disinfection of CL is

- a) 37° – 60°
- b) 80° – 100°
- c) 70° – 80°
- d) 60° – 90°.

viii) Scissors reflex is an indication of

- a) regular astigmatism of cornea
- b) high myopia
- c) pseudo-myopia
- d) irregular astigmatism of cornea.

ix) A toric lens of  $R_x - 3.00 / - 1.50 \times 10^\circ$  rotates  $15^\circ$  to the left side on the eye, the final prescription will be

- a)  $- 3.00 / - 1.50 \times 25^\circ$
- b)  $- 3.00 / - 1.50 \times 85^\circ$
- c)  $- 3.00 / - 1.50 \times 177^\circ$
- d) none of these.

x) A soft lens wearer reports that his vision is fairly good in the primary position. However, it blurs immediately following a blink and then reverts to the previously good quality. What is the MOST likely cause of these fluctuations in vision ?

- a) Total lens diameter is too big
- b) The lens fit is too flat
- c) The lens does not move enough with the blink
- d) The lens fit is too steep.



xi) Lens orientation and stabilization with prism ballast toric soft lenses is achieved primarily through

- a) alignment of the lens edge with the lower lid margin
- b) base in and base out prisms
- c) prism-induced thickness differences
- d) gravitational forces.

xii) The reference marks on soft toric lenses are used to assess which of the following ?

- a) Cylinder axis
- b) Lens orientation in situ
- c) Stabilization method
- d) Cylinder power.

http://www.makaut.com/

**GROUP – B**  
**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

- 2. X-chrome ( contact ) Lenses.
- 3. Toric soft C/L Stabilization techniques.
- 4. Signs of an inadequate soft contact lens fitting.
- 5. Reverse Geometry Lens.
- 6. "Preservatives" used in contact lens solutions.
- 7. Multifocal contact lenses.

**GROUP – C**  
**( Long Answer Type Questions )**

Answer any *three* questions.

3 × 15 = 45

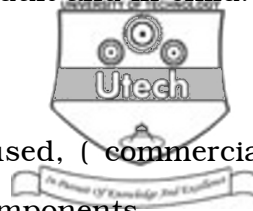
- 8. Explain the role of contact lens in the management of Keratoconus patients, Discuss the different contact lens options available to manage such cases. 15
- 9. What are the indications for use of contact lens in children ? What are the different types of lenses available ? Discuss the advantages and disadvantages of each. 5 + 10
- 10. a) Explain the term "BOZR" in respect to a "back surface toric" soft or RGP contact lens.
- b) Discuss the fitting procedure of Piggy back - 1 contact lens ( step by step ).

6 + 9

**6816 (11/06)**



11. a) State the differences of fitting of contact lens in adult and in child. 8 + 7
- b) Discuss prosthetic contact lenses.
12. Name the constituents used in, any very commonly used, ( commercially available ), contact lens solution. Explain the role of each of the components. 10 + 5



What should be the properties of an "ideal contact lens care solution, if possible ?

---

END