Q.P. Code: 322013   Reg. No.:…………………

Third Year B.Sc Optometry Degree Supplementary Examinations
April 2024
Contact Lens
(2016 Scheme)

Time: 2 hrs   **Max marks: 40**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay   (10)

1. Discuss the prefitting considerations while fitting RGP lenses. If your lens shows the dark black area in the centre and pooling surrounding it, what type of fit is this. What are the signs observed and symptoms of the patient.

Short notes   (3x5=15)

2. Calculate the back vertex power (BVP)of the contact lens if the spectacle refraction is -9.00 DS. Vertex distance is 14mm.

3. Briefly mention 5 complications related to soft contact lens.

4. Draw a neat diagram of Pre corneal tear layer.

Answer briefly   (5x2=10)

5. A patient has a horizontal visible iris diameter (HVID) of 11.5 mm. What CL TDs would be MOST suitable when fitting this patient with RGP lenses.

6. What will you examine under the slit lamp, if an RGP patient comes for the follow-up.

7. A patient's right eye has keratometry readings of 8.23 mm@5 (41.00 D) and 7.85 mm@95 (43.00 D) The spectacle refraction of -1.75/-0.50 X 5. What will be the residual astigmatism if the patient is fitted with RGP lenses.

8. What is orthokeratology.

9. Write any one RGP contact lens-related complication and its management.

One word answer / True or False   (5x1= 5)

10. Subjective refraction of the eye is -1.25 @105. What type of astigmatism is this.

11. A hyperope transferring from spectacles to contact lenses will use more accommodation and more convergence. (True or False)

12. Leonardo da Vinci is credited for conceiving the concept of contact lens. (True or False)

13. A toric soft contact lens with BVP of -2.25 /-2.50 X 45 has its least thickness in which meridian.

14. Tightness of soft contact lens can be evaluated by putting fluroscein in the eye. (True or False)

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