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Invigilator's Signature :	

CS/B.OPTM/SEM-5/BO-502/2010-11 2010-11 CONTACT LENS – I

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

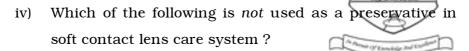
Candidates are required to give their answers in their own words as far as practicable.

GROUP - A (Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following: $10 \times 1 = 10$
 - i) What does the keratometer actually measure?
 - a) Apparent front corneal surface curvature
 - b) Limited to central 3 mm approximately
 - c) Sagittal radium
 - d) All of these.
 - ii) Contact lens deposits can be observe by
 - a) Retro-illumination b) Specular reflection
 - c) Tangential illumination d) Sclerotic scatter.
 - iii) Most common Total diameters of SCL is
 - a) 13.5 14.5 mm b) 11.5 16.00 mm
 - c) 10.00 12.00 mm d) 11.00 13.00 mm.

5120 [Turn over

CS/B.OPTM/SEM-5/BO-502/2010-11

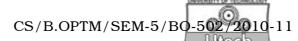


- a) Polyquad
- b) Benzalkonium chloride

c) Dymed

- d) Chlorohexidine.
- v) The function of buffer in a MPS is to
 - a) maintain solution pH
 - b) increase wettability
 - c) create regular optical surface
 - d) provide moisture
 - e) all of these
 - f) none of these.
- vi) A myope shifting from spectacle to contact lens will
 - a) accommodate & converge less
 - b) accommodate & converge more
 - c) accommodate less, but converge more
 - d) converge less, but accommodate more.
- vii) FDA classification of different SCL, group I means
 - a) High water content, ionic
 - b) High water content, non-ionic
 - c) Low water content, non-ionic
 - d) Low water content, ionic.

5120 2



- viii) The time required for disinfection of soft lens using Hydrogen peroxide is
 - a) 2 hrs

b) 15 – 20 mins

c) 24 hrs

- d) 5 mins.
- ix) Contact lens wear is theoretically contraindicated in
 - a) albinism
- b) aphakia
- c) axial anisometropia
- d) astigmatism.
- x) The Base curve required for a patient with K1 = 7.8 mm& K2 = 7.5 mm is
 - a) 8.8 mm
- b) 8.5 mm
- c) 7.5 mm
- d) 8.6 mm.

GROUP – B (Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. Write a short note on Saggital height.
- 3. What is Tear Lens? Discuss the relationship between RGP Lens and tear lens.
- 4. Discuss the optical advantages and disadvantages of contact lenses.
- 5. Write a short note on Wetting angle of contact lenses.

5120 3

[Turn over

CS/B.OPTM/SEM-5/BO-502/2010-11



(Long Answer Type Questions)

Answer any three of the following.



- 6. a) Discuss the "criteria" for sleeting suitable patients for prescribing SCL and RGP lenses.
 - b) Discuss the importance of the following:
 - i) Corneal Topography
 - ii) Use of Keratometer
 - iii) Use of a slit lamp in contact lens practice. 6 + 9
- 7. Discuss different corneal complications associated with softCL wear. Discuss about the procedure for fitting evaluationof a soft CL patient.8 + 7
- What are the different contact lens manufacturing methods?
 Discuss the 'spin cast' method of lens manufacture and also discuss its advantages and disadvantages.
 9 + 6
- Briefly describe the history of contact lens and its development.

5120 4