	Utech
Name:	
Roll No.:	In Spanish (V. Samplelija Stad Sayalland)
Invigilator's Signature :	

CS/B.OPTM./SEM-5/BO-502/2012-13

2012

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 any *ten* of the following:

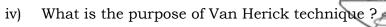
 $10 \times 1 = 10$

- i) RGPs lens fabrication technique is
 - a) lathing

- b) spin-casting
- c) both (a) and (b)
- d) none of these.
- ii) Low magnification in slit lamp biomicroscope means
 - a) 7X 10X
- b) 5*X* 10*X*
- c) 1X 10X
- d) 2X 9X.
- iii) Placido disc is used to access
 - a) qualitative assessment
 - b) quantitative assessment
 - c) both (a) and (b)
 - d) none of these.

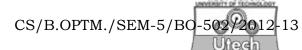
5146 Turn over

CS/B.OPTM./SEM-5/BO-502/2012-13



- a) Assessing the central corneal thickness
- b) Viewing striae in the posterior corneal stroma
- c) Determining the anterior chamber angle
- d) Assessing the wettability of a contact lens material.
- v) What does the keratometer actually measure?
 - a) Apparent front corneal surface curvature
 - b) Limited to central 3 mm approximately
 - c) Sagittal radius
 - d) All of these.
- vi) Most common total diameter of SCL is
 - a) 13·5 mm 14·5 mm
- b) 11.5 mm 16.00 mm
- c) 10.00 mm 12.00 mm d)
- 11.00 mm 13.00 mm.
- vii) Contact lens wear can cause changes in the
 - a) curvature / power
- b) refractive index
- c) thickness
- d) all of these.
- viii) TD neutralizer in hydrogen peroxide system is
 - a) catalase
 - b) cyclase
 - c) sodium thiosulphate
 - d) sodium transferase.
- ix) By push-up test one usually measures
 - a) fitting of the lens
 - b) power of the lens
 - c) wettability of the lens
 - d) material property of the lens.

5146 2



- x) Bausch and Lomb keratometer is a
 - a) one-position keratometer
 - b) two-position keratometer
 - c) none of these
 - d) both (a) and (b).
- xi) Normal tear break-up time is
 - a) 10 seconds
- b) 45 seconds
- c) < 10 seconds
- d) 15 to 45 seconds.

GROUP - B

(Short Answer Type Questions)

Write short notes on any *three* of the following. $3 \times 5 = 15$

- 2. Diagnosis and management of giant papillary conjunctivitis.
- 3. Oxygen transmissibility of contact lens.
- 4. Advantages and disadvantages of contact lens over spectacles.
- 5. Advantages and disadvantages of 'Lathing' RGPs lens fabrication techniques.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$

- 6. Briefly discuss about the different types of soft contact lens materials with FDA classification of SCL material. 7 + 8
- 7. Discuss briefly about the
 - i) slit lamp techniques and
 - ii) keratometer techniques commonly used before contact lens fitting. 7 + 8
- 8. What are the possible complications of soft and rigid contact lens wearing? Write about the management of such cases.

5 + 10

9. What do you mean by Contact Lens Fitting Protocol? Write about the trial fitting procedure & Final Lens Order.

=========

5146 3 [Turn over