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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) 5X 10X
  - 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

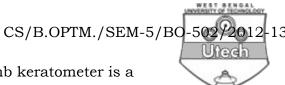
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- iv) What is the purpose of Van Herick technique ?
  - a) Assessing the central corneal thickness
  - b) Viewing striae in the posterior corneal stroma
  - c) Determining the anterior chamber angle
  - d) Assessing the wettability of a contact lens 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



### x) Bausch and Lomb keratometer is a

- a) one-position keratometer
- b) two-position keratometer
- c) none of these

a)

- d) both (a) and (b).
- xi) Normal tear break-up time is
  - 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.

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5146

3

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