

**MASTER OF OPTOMETRY**  
**S. Y. M. Optom. : SUMMER – 2022**  
**SUBJECT : OPTICS & CONTACT LENSES**

Day : Monday

Time : 10:00 AM-12:00 PM

Date : 21-11-2022

S-807-2022

Max. Marks : 50

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**N. B.**

- 1) Answer the Section A and Section B on two **SEPARATE** answer sheets.
  - 2) Section A is of objective questions for total **20 marks**.
  - 3) Section B is of objective questions for total **30 marks**.
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**SECTION – A**

**Q.1** Multiple choice questions: **(10)**

- 1) In CLPC there is an increase in \_\_\_\_\_ level of immunoglobulin.
  - a) IgG
  - b) IgD
  - c) IgE
  - d) Both a and b
  
- 2) The holes present in scleral contact lenses is called as
  - a) Holes
  - b) Fenestrations
  - c) Vents
  - d) None of the above
  
- 3) Post Ortho-K the following corneal changes are seen
  - a) Epithelial thinning
  - b) Midperipheral Stromal thinning
  - c) Post corneal curvature change
  - d) Both a and b
  
- 4) During ocular hypersensitivity reaction \_\_\_\_\_ cells are seen in plenty
  - a) B Cells
  - b) T Cells
  - c) Mast Cells
  - d) Dendritic Cells

**P.T.O.**

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- 5) Pervaporation staining is mainly due to depletion of following layer of the tear film
- Lipid
  - Aqueous
  - Mucin
  - Both b and c
- 6) 3-9 O'clock staining is mainly due to
- Soft toric lens
  - RGP lens
  - Soft contact lens
  - Gram negative bacteria
- 7) Following stain stains degenerated and dead cells
- Rose Bengal
  - Low molecular weight fluorescein
  - High molecular weight fluorescein
  - Indocyanine green
- 8) Lens wrinkling is seen in following contact lens wear
- Thick soft lens
  - Thin soft lens
  - RGP lens
  - Scleral lens
- 9) Following statements regarding CLPC are true except
- It is allergic ocular response
  - More commonly seen in soft contact lenses
  - Antihistamines and mast cell stabilizers are given for the treatment
  - Papillary size is larger than follicles
- 10) Equivalent oxygen percentage for daily wear should be
- 9.9
  - 17.9
  - 24
  - 87

**P.T.O.**

**Q.2** State True or False.

**(10)**

- 1) Hydrogen Peroxide system is not effective for RGP lens care.
- 2) Large diameter lenses give better stability for Aphakic patients.
- 3) Thermal disinfection can cause the denaturation of the protein deposit.
- 4) Substance secreted by meibomium glands is called as meibum.
- 5) Reverse geometry lenses are the lenses whose central radius of curvature is larger than the peripheral radius of curvature.
- 6) Refractive ametropia can be best corrected with spectacles.
- 7) Hybrid contact lenses has a central soft lens and peripheral skirt of RGP material.
- 8) Protein deposits on RGP lens can be removed by polishing the lens.
- 9) 2% of corneal oedema will cause one striae into the posterior stroma.
- 10) Principle of specular reflection slit lamp technique is total internal reflection.

### **SECTION-B**

**Q.4** Answer **ANY FIVE** of the following.

**(30)**

- 1) Patient age 47 years has R +2.00DS -0.25DC X 90 L +2.00DS -0.25DC X 140 Add:- +2.00, Discuss various contact lens option available for him.
- 2) A low income group patient wearing conventional lenses has ended up with a contact lens related eye infection in the first month of purchase. Discuss your strategy in handling this patient.
- 3) Corneal complications associated with contact lens induced hypoxia.
- 4) Differentiate between the SEAL and SMILE pattern.
- 5) What is RGP lens warpage and how will you manage the condition?
- 6) Explain the clinical picture and the management of solution sensitivity.

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