

MASTER OF OPTOMETRY
S. Y. M. Optom. : WINTER :- 2021
SUBJECT: OPTICS & CONTACT LENSES

Day : Monday
Date 18-Apr-2022

W-807-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 50

N.B.:

- 1) **Section – A** is of objective questions for total **20** marks.
- 2) **Section – B** is of short questions for total **30** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – A

Q.1 Fill in the blanks: **[20]**

- 1) Corneal striae found in Keratoconus are known as _____ striae.
- 2) The desired post blink movement of an RGP contact lens is _____.
- 3) Reducing the total diameter of contact lens shifts the centre of gravity _____.
- 4) Acanthamoeba is a _____ type of micro-organism.
- 5) The hydrogel component of Silicone hydrogels is necessary for _____.
- 6) When secondary curves are steeper than BOZR, the design is said to be _____.
- 7) Oxygen transmission through a contact lens is typically measured for _____ BVP and _____ temperature.
- 8) _____ is an example of gram positive bacteria.
- 9) _____ (organism) is most associated with contact lens related Keratitis.
- 10) The film produced by bacteria to protect the host cell and trap nutrients is called as _____.
- 11) _____ contact lens complication is also referred to as 3 AM syndrome.
- 12) The greatest contraindication for contact lens wear is _____.
- 13) The major disadvantage of monovision as compared to bifocal / multifocal contact lenses is _____.
- 14) The primary purpose of a bandage contact lens used for bullous Keratopathy is _____.
- 15) A prism ballasted toric soft contact lens contains _____ amount of prism in base _____ direction.
- 16) Truncation is not used regularly as a stabilization technique because _____.

P.T.O.

- 17) _____ is the material of first choice for a therapeutic contact lens used in epithelial lesions.
- 18) _____ is a slit lamp illumination technique based on total internal reflection.
- 19) In three point touch technique, the contact lens touches at _____.
- 20) Microcysts shows reverse illumination because _____.

SECTION – B

Q.2 Attempt **ANY SIX** of the following: **[30]**

- a) Explain various methods for measuring soft toxic lens rotation.
- b) Discuss advantages and disadvantages of monovision and various multifocal contact lenses.
- c) Discuss various contact lens options to control myopia progression.
- d) Discuss the hazards of extended wear of contact lens.
- e) Explain various contact lens options for dry eye patients.
- f) Discuss the etiology, patho-physiology of Microbial Keratitis.
- g) What are the various types of tints in contact lens? When are they recommended?

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