

Note:

Section-A is given on a separate sheet and has to be answered on same sheet. This sheet should be completed within first 30 minutes of starting of examinations. This sheet with Section A only will be collected by the supervisor.

Seat No. - _____

Date: 22-10-2018

Day: Monday

Max. Marks: 20

SECTION-A

Q.1 Fill in the blanks:

(20)

- a) In adequate optic zone size can cause _____.
- b) A _____ curve provides clearance of the lens in primary gaze and alignment with lateral gaze.
- c) _____ disinfection is not compatible with rigid lens.
- d) Tear lenses from by base curves flatter than K value have _____ Power.
- e) During static fit assessment a ring of fluorescein appearing under the lens periphery indicates _____.
- f) A lens design including a central optical zone and a non optical peripheral zone is known as _____ design.
- g) Radiuscope is used for measuring the _____.
- h) If the diameter is held constant the sagittal depth decreases as the base curve _____.
- i) As the rigid contact lenses neutralize astigmatism at the corneal surface _____ is avoided.
- j) While selecting the initial base curve of the lenses if it matches that of cornea the fit said to be _____.
- k) For central or interpalpebral fit we have to select a lens of _____ fit than K value.

P.T.O.

- l) Unconscious incomplete blinking and poor wetting of peripheral cornea results _____ while assessed with fluorescein.
- m) Water proof mascara can flake or break up and increase the debris level on the _____ layer of the tear.
- n) The position of the centre of gravity is affected by total diameter of lens, lens thickness, _____ and _____ of the lens .
- o) Fluorescence is more effective in _____ pH.
- p) Ptosis occurs of due to dehiscence of the _____ secondary to long term use of RGP lenses.
- q) Increasing (or decreasing) the BOZD by 0.5mm requires change of the BOZR by _____ mm.
- r) If the _____ is not fully covering the pupil, then the retinoscopic reflex will become distorted at the transition between the central and peripheral radii.
- s) p value of corneal topographic map stands for _____ factor of the cornea.
- t) k of Dk value is stands for _____ of oxygen.

Marks Obtained: _____

Signature of Invigilator _____

Signature of Examiner _____

III -B.OPTOM. SEM – V : WINTER - 2018

SUBJECT: CONTACT LENSES (I)

Day: Monday
Date: 22/10/2018

W-2018-3729

Time: 02.00 PM TO 05.00 PM
Max. Marks: 50

N.B.:

- 1) There are **THREE** sections as:
Section-A= Objective types questions =20 Marks
Section-B= long questions =20 Marks
Section-C=short questions =30 Marks
 - 2) Section-A is given on **SEPARATE** sheet has to be answered on the same sheet.
 - 3) section-B has 3 Long questions and any **TWO** questions have to be answered On the **SEPARATE** answer sheet.
 - 4) **Section- C** has Short questions and any **FIVE** questions have to be answered on **SEPARATE** answer sheet.
 - 5) Draw neat and labeled diagram **WHEREVER** necessary.
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SECTION-B

Q.2 Answer **ANY TWO** of the following: **(20)**

- a) Calculate tear lens ,over refraction and final lens power for the following cases-
 - i) K 42.50 D @ 180, 44.50 D @ 90
Refractive error -3.00DS /-2.00 DC X180
BVP of the trail lens is -2.00DS
CL fitted on 'ON' K and 'Average' K values.
 - ii) K 43.75 D @ 180, 45.25 D @ 90
Refractive error -2.00 DS
BVP of the trail lens is -3.00DS
CL fitted on 'ON' K and 'Steep' K values.
- b) Discuss corneal permeability with specific reference to water, oxygen and carbon dioxide. What are the four parts of oxygen delivery to the cornea during open eye and close eye condition? List at list five functional corneal changes that occur with increase in age.
- c) Discuss the flourescein pattern in RGP lens fitting.

SECTION-C

Q.3 Answer **ANY FIVE** of the following : **(30)**

- a) How TBUT and Schirmer's test are important in contact lens practice.
- b) Spectacle Rx= -5.00DS at a vertex distance of 12 mm from corneal plane . Find contact lens power and also find the ocular refraction and ocular accommodation at near object 40 cm.
- c) Write a short note on corneal transparency
- d) Write a note on ordering and verification of RGP contact lens.
- e) How you are going to manage a patient who complains of irritation and watering with contact lens.
- f) Why is it important to take systemic history before fitting CL? What role does it play?

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