

**III-B.OPTOM. SEM-V : SUMMER-2022**  
**SUBJECT : CONTACT LENSES (I)**  
**S-846-2022**

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**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

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Seat No. : \_\_\_\_\_

Date : Thursday

Day : 07-07-2022

Max. Marks : 20

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**SECTION - A**

**Q.1** Fill in the blanks :

**(15)**

- a) The average front apical radius of cornea is \_\_\_\_\_.
- b) GAGs are responsible for \_\_\_\_\_.
- c) Cornea derives approximately \_\_\_\_\_ % oxygen from the atmosphere.
- d) Extended wear contact lenses can be worn for \_\_\_\_\_.
- e) Hypoaesthetic cornea is usually seen in \_\_\_\_\_.
- f) If the BOZR is flattened by 0.05 mm, the tear lens power will increase by \_\_\_\_\_ D.
- g) A possible cause of a CL continuously staying to one side is \_\_\_\_\_.
- h) Excessive edge clearance can cause \_\_\_\_\_.
- i) Contact lenses are choice of correction when the anisometropia is \_\_\_\_\_ in origin.
- j) SAM stands for \_\_\_\_\_.
- k) The edge contour of a CL can be verified by \_\_\_\_\_.
- i) Microponctate and macroponctate are the types of \_\_\_\_\_.
- m) The surface crazing in CL can be caused because \_\_\_\_\_.
- n) CL flexure may lead to \_\_\_\_\_.
- o) If a patient has a spectacle Rx of BE : + 6.75 then the CL power for that patient will be \_\_\_\_\_ D.

**PTO**

**Q.2** State True or False. Give reason if False.

**(05)**

- a) Reducing the TD of CL will loosen the fit.
- b) Pervaporation is commonly seen in Low Water content CL.
- c) Decreased BUT is seen in lipid deposits.
- d) HPMC is used in dry eye products.
- e) Patient's education level affects the compliance of the patient.

**Marks Obtained :** \_\_\_\_\_

**Signature of Invigilator :** \_\_\_\_\_

**Signature of Examiner :** \_\_\_\_\_

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**BACHELOR OF CLINICAL OPTOMETRY**  
**III-B. Optometry Sem-V :SUMMER- 2022**  
**SUBJECT : CONTACT LENSES**

Day : Thursday  
Date : 7/7/2022

**S-846-2022**

Time : 10:00 AM-01:00 PM  
Max. Marks : 70

**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** answerbook.
- 4) Section C has short questions and **ANY FIVE** questions have to be answered on **SEPARATE** answerbook.
- 5) Draw neat and labelled diagram **WHEREVER** necessary.

**SECTION - B**

**Q.1** Attempt **ANY TWO** of the following : **(20)**

- a) Explain in detail the post-fitting evaluation of RGP lenses.
- b) Write a note on RGP lens care system.
- c) Write a note on corneal physiology. How does a CL affects the normal corneal physiology?

**SECTION - C**

**Q.1** Attempt **ANY FIVE** of the following : **(30)**

- a) Write a note on significance of history taking in CL fitting.
- b) Write a note on manufacturing of RGP CL.
- c) Define deposits. What are the various types of deposits? Explain their source, appearance and management.
- d) Explain 3 and 9 O'clock staining.
- e) How is accommodation and convergence different in CL compared to spectacles in a myopic patient?
- f) What are the characteristics of an ideal contact lens material? Explain in detail about Dk and wettability of CL.

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