

**I – B. OPTOM. SEM – II: SUMMER – 2022**  
**SUBJECT: OPHTHALMIC OPTICS**

Day : Wednesday  
Date : 13-07-2022

Time: -  
Max. Marks: 20

S-833-2022

**Note:**

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

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

Day and Date: \_\_\_\_\_

**SECTION – A**

**Q.1** Match the following: **(05)**

- |                  |                         |
|------------------|-------------------------|
| a) LASER         | i) 60 D                 |
| b) Emmetropia    | ii) Less accommodation  |
| c) Hypermetropia | iii) Refractive surgery |
| d) Aphakia       | iv) 43.50 D             |
| e) Presbyopia    | v) Shallow A. C.        |

**Q.2** State True or False (if False give reason) **(05)**

- a) Nd – YAG laser is not used in cataract surgery.
- b) Myopia patients can see distance object clearly.
- c) Aphakic patients can accommodate.
- d) Sturm's conoid is seen in simple myopia.
- e) Convex lens diverge the light rays.

**Q.3** Fill in the blanks: **(10)**

- a) + 0.50 DSph / + 0.50 DCyl × 180 is a classical example of \_\_\_\_\_
- b) The total dioptré value of the eye ball is \_\_\_\_\_
- c) Decimal value of 6/36 is \_\_\_\_\_
- d) Vergennes is defined as \_\_\_\_\_
- e) Magnification of telescope is \_\_\_\_\_
- f) Assuming your own values, if X is \_\_\_\_\_ and Y is \_\_\_\_\_ then write in Snellen's fraction X / Y.
- g) Optical centre of the lens is defined as \_\_\_\_\_
- h) At birth refractive status of the eye ball is \_\_\_\_\_
- i) Hypermetropia is also called as \_\_\_\_\_
- j) Total hyperopia = Latent+ \_\_\_\_\_ ( \_\_\_\_\_ + absolute).

Total Marks Obtained: \_\_\_\_\_

Signature of the Invigilator: \_\_\_\_\_

Signature of the Examiner: \_\_\_\_\_

**P. T. O.**

**BACHELOR OF CLINICAL OPTOMETRY**  
**I-B. Optometry Sem-II :SUMMER- 2022**  
**SUBJECT : OPHTHALMIC OPTICS**

Day : Wednesday  
Date : 13-07-2022

**S-833-2022**

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

**N. B.:**

- 1) There are **THREE** sections as:  
Section A = Objective type questions 20 Marks  
Section B = Objective type questions 20 Marks  
Section C = Objective type questions 30 Marks
- 2) Section A is given on a separate sheet and has to answer on the same sheet.  
This sheet should be completed with the first 30 minutes of the starting of the examination. This sheet with Section – A only will be collected by the supervisor.
- 3) Section B has 3 long questions and only **TWO** questions have to be answered on the **SEPARATE** answer books.
- 3) Section C has 6 short questions and only **FIVE** questions have to be answered on the **SEPARATE** answer books.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

**SECTION – B**

- Q. 3** Answer **ANY TWO** in detail: (20)
- a) Define astigmatism. Write about the signs symptoms, classification with diagram and treatment.
  - b) Write in detail about the concept of schematic eye and reduced eye and explain their significances.
  - c) Define visual acuity. Write about the components of visual acuity and methods of measurement.

**SECTION – C**

- Q. 4** Answer **ANY FIVE** of the following: (30)
- a) Write a short note on myopia.
  - b) Write about the classification of hypermetropia with example.
  - c) Write about aphakia and its correction.
  - d) Write a short note on Sturm's conoid. Draw a diagram and explain.
  - e) Write a note on Holography.
  - f) What is accommodation? Far and near point of accommodation in myopic and hypermetropic eye.

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