

II-B.Optom.Sem-III: SUMMER.2018

SUBJECT: DISPENSING OPTICS-II

Day: Wednesday
Date: 18-04-2018

Time: —
Max. Marks: 20

5-2018-3564

N.B:

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

Seat No. _____

SECTION-A

Q.1 Fill in the blanks: **(20)**

- 1) Maximum R.I. available among plastic lens material is _____
- 2) Effective diameter is _____ distance from the geometrical distance of the lens to the apex of the lens farthest from it.
- 3) Near add in PAL is engraved at _____
- 4) _____ maintains PALs design principle throughout the range of addition
- 5) Corning developed a series of photo chromatic lens referred as _____
- 6) _____ is the best bifocal suggested for a myope.
- 7) _____ tint is used for unfavorable indoor lighting
- 8) Viewed through a colmascope a heat tempered glass lens will show _____
- 9) _____ Spectacle can be prescribed in bed ridden patient.
- 10) When compared with conventional metal frame materials titanium is _____% lighter.

P.T.O.

- 11) The three main properties of trivex are _____, ultra light weight and extreme strength.
- 12) Effective power of minus lens _____ when moved away from eye.
- 13) Bull's eye effect is a disadvantage of _____
- 14) Impression free sign lenses belong to _____ company.
- 15) For horizontal reflecting surface the plane of polarization is _____
- 16) _____ Rays are used in photo chromatic lenses for _____ bleaching process.
- 17) Lenses free of oblique astigmatism are known as _____
- 18) Asphericity is achieved by _____ the front surface periphery in plus lens.
- 19) The abrasive powder used for truing step is _____
- 20) Material used for essilor junior is _____

Marks Obtained: _____

Signature of Invigilator: _____

Signature of Examiner: _____

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II – B. OPTOM. SEM– III : SUMMER - 2018

SUBJECT: DISPENSING OPTICS-II

S-2018-3564

Day: **Wednesday**
Date: **18/04/2018**

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

N.B:

- 1) There are **THREE** sections as:
Section A = Objective type questions = 20marks
Section B = Long questions = 20marks
Section C = Short questions = 30marks
 - 2) **Section-A** is given on a **SEPARATE** sheet and has to be answered on the **SAME** sheet. This sheet should be completed within the first **30** minutes of starting of the examination. This sheet with section-A only will be collected by the supervisor.
 - 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 the **SEPARATE** answer sheet.
 - 5) Draw neat labeled diagrams **WHEREVER** necessary.
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SECTION-B

Attempt **ANY TWO** of the following: (20)

- Q.1** Write in detail about various types of bifocal. Discuss about various measurements required for fitting bifocal.
- Q.2** Write a note on glass photo chromatic lens. Discuss the various factors affecting the photo chromatic response.
- Q.3** Write a note on different types of frame material.

SECTION-C

Attempt **ANY FIVE** of the following: (30)

- a) Discuss about various purposes of using an aspheric design.
- b) Write short note on boxing system.
- c) Explain with diagram various designs of PALs.
- d) Discuss in brief about Tscherning ellipse, point focal and best form lenses.
- e) Write short note on faults in lenses.
- f) Write short note on manufacturing and indication of polarized lens.

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