[AHS 0122] JANUARY 2022 Sub. Code: 2753 (FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)

B.OPTOM

THIRD YEAR (Regulation 2018-2019) PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802753

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on: $(3 \times 10 = 30)$

1. Write in detail the different classifications of contact lenses.

- 2. Write in detail about the optics of contact lenses.
- 3. Write about the different types of low vision aids. How do you select a particular aid and magnification required for patients with low vision?

II. Write notes on: $(8 \times 5 = 40)$

- 1. Contraindications for contact lens use.
- 2. Properties of contact lens materials.
- 3. RGP lens manufacturing techniques.
- 4. Features of an ideal soft contact lens fit.
- 5. Write about any 2 complications due to extended wear of contact lenses.
- 6. Write about the preliminary examination of patients before contact lens trial.
- 7. Neatly draw a contact lens and mark its parts. Define the key parameters of a contact lens.
- 8. Evaluation of a patient with low vision.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. Oxygen transmission.
- 2. Therapeutic contact lenses.
- 3. Steps in contact lens care and maintenance.
- 4. Contact lens options for keratoconus.
- 5. LARS rule.
- 6. Fresnel prisms and its uses.
- 7. Rehabilitation of low vision patients.
- 8. List out common low vision disorders leading to peripheral vision loss.
- 9. Glare control in low vision patients.
- 10. Legal blindness.

[AHS 0922] SEPTEMBER 2022 Sub. Code: 2753 (FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.OPTOM

THIRD YEAR (Regulation from 2018-2019) PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802753

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on: $(3 \times 10 = 30)$

- 1. What are the indications of RGP lenses? Explain the fitting of RGP lenses in detail.
- 2. Write in detail about various contact lens materials, their advantages and disadvantages.
- 3. Write in detail the optics, uses, advantages, disadvantages of optical low vision devices.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Explain corneal metabolism and hydration dynamics.
 - 2. Types of toric lens fitting.
 - 3. Write the signs and symptoms of a loose-fitting soft contact lens. How will you correct the fit?
 - 4. Therapeutic contact lenses.
 - 5. CLPC Expand and explain the features, causes and management.
 - 6. Contraindications for contact lens wear.
 - 7. Advantages of disposable contact lenses.
 - 8. Non-optical low vision aids.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. Sattler's veil.
- 2. Types of bifocal contact lenses.
- 3. Diagnostic uses of contact lenses.
- 4. A patient wears -5.00DS spectacles at a distance of 12mm from the eye. What is the power to be prescribed in contact lenses?
- 5. Draw a contact lens and mark the parts.
- 6. What will be your lens of choice for a patient having dry eyes? Justify your answer(s).
- 7. Disability vs. disorder.
- 8. List the types of magnification. Give example of one device for each type.
- 9. Pinhole spectacles.
- 10. Types of illumination techniques and magnification used in slit lamp in contact lens practice.

[AHS 0423] APRIL 2023 Sub. Code: 2753

B.OPTOM

THIRD YEAR (Regulation 2018-2019 onwards) PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802753

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on: $(3 \times 10 = 30)$

- 1. Write in detail about soft contact lens care and maintenance.
- 2. Write in detail about toric contact lens patient selection, fitting considerations and its evaluations.
- 3. Define Low Vision Aids. Write in detail about non-optical devices in Low vision.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Define Keratometry. Write uses of Keratometry in contact lens fitting.
- 2. Write about insertions and removal techniques of Soft contact lens.
- 3. Find out the contact lens power for following prescriptions (vertex distance = 14 mm).
 - a) 10.00 DSPH
- b) + 5.00 DSPH.
- 4. Write about accommodation and convergence with contact lens.
- 5. Chemical disinfection of contact lenses.
- 6. Write a short note on Bi-Optic telescopes.
- 7. Classify the categories of Visual Impairment.
- 8. Contact lens fitting in Astigmatism.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. What is Multi-Purpose Solution?
- 2. Water content of a contact lens.
- 3. Instruments used in measurement of contact lens power.
- 4. Write types of semi-soft contact lens materials.
- 5. Write the parts of contact lens with a diagram.
- 6. Define functional Vision.
- 7. Write about the uses of Notex.
- 8. How do you examine the tear film quality?
- 9. Types of rigid lenses.
- 10. What is CLARE?

[AHS 1123] NOVEMBER 2023 Sub. Code: 2753

B.OPTOM

THIRD YEAR (Regulation 2018-2019 onwards) PAPER III – LOW VISION AIDS AND CONTACT LENS

Q.P. Code: 802753

Time: Three hours Answer ALL Questions Maximum:100 Marks

I. Elaborate on: $(3 \times 10 = 30)$

1. Write in detail about the selection criteria and evaluation of Trial Lens Fitting of Soft Contact Lens.

- 2. Write in detail about parameters required and the fitting assessment of an RGP Lens.
- 3. Explain about different types of Low Vision Devices available for Distance Vision Correction.

II. Write notes on: $(8 \times 5 = 40)$

- 1. FAD classification of Contact Lenses.
- 2. What are the main advantages of Contact Lens over Spectacles?
- 3. Symptoms of loose fit and tight fit in soft contact lens and its correction.
- 4. Differences between Static and Dynamic fitting of RGP contact lenses.
- 5. Terms used in relation to properties of contact lens materials.
- 6. Define Legal blindness.
- 7. Types of magnification used in low vision.
- 8. Define Glare. Explain about the types of Glare and its management.

III. Short answers on:

 $(10 \times 3 = 30)$

- 1. What is TACO test?
- 2. Define Visual impairment.
- 3. Define Oxygen transmissibility.
- 4. The spectacle prescription is : -3.00Dsp/ -3.75DCx180. If the rotation of the lens is 10 degrees to the left, what will the final lens order be?
- 5. Name any three Computer assisted devices used in LV (low vision) patients.
- 6. Mention any three ocular disease conditions that can cause peripheral field defect.
- 7. Mention the indications of Bandage contact lens wear.
- 8. Disadvantages of PMMA.
- 9. Mention the deposits on Soft contact lenses.
- 10. What is Hybrid Contact Lens?