

Question Paper

Exam Date & Time: 27-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: SUBJECT: OPT5201 - ADVANCED CONTACT LENS STUDIES
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Explain about the following contact lens parameters and mention their impact on fitting if you want to improve fitting of a steep contact lens to ideal fit: (i) Lens Sag (ii) Lens thickness (iii) Modulus of elasticity (iv) Total diameter (v) Base curve (15)
- 1B) With the help of diagram explain RGP fitting technique in high with the rule astigmatism cases. (5)

2. Write in detail about following contact lens complications and mention the plan of management.

- 2A) CLPU (5)
- 2B) CLPC (5)
- 2C) CLARE (5)
- 2D) SEAL (5)

Answer all the questions.

- 3A) A two months old baby operated for unilateral cataract has been referred to you for further management. Explain your plan of management. (10)
- 3B) Describe two different soft multifocal contact lens designs with examples and mention their fitting strategies. (10)
- 3C) Describe the following lens fitting options for keratoconus and mention advantages and challenges faced by the practitioners. (10)
i) Piggyback lens
ii) Hybrid lens
- 3D) Describe the fitting criteria for an ideal fit full diameter scleral contact lens and mention how you will do the fit evaluation. (10)
- 4A) Explain the ISO classification for CL materials with example. (5)
- 4B) Describe tear lens and mention its role on contact lens fitting. Mention the type of contact lenses you will prescribe for the following patient:
K1= 43.00 D @ 175°; K2=46.00 D @ 85°; Spectacle refraction: -3.75 D Sph /-4.00 D Cyl ×175°. Justify your answer with reason. (5)
- 4C) Describe why soft toric lens exhibits rotation? Describe reference mark with example and mention the usages. (5)
- 4D) Describe the following: (5)

- i) Edge lift.
- ii) Lenticular lens design.

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Question Paper

Exam Date & Time: 29-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: OPT5202 - OCULAR DISEASES-II
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

1. A 16-year-old female, presents at the optometry clinic with a chief complaint of decreased vision in left eye since last two months. Patient has been wearing glasses since the age of 8 and soft contact lens since last 1 year. Patient has irregular astigmatism in both eyes but in last six months patient constantly feels like rubbing her eyes. Optometrist performs a detailed examination, and the patient is diagnosed to have bilateral asymmetrical keratoconus (KCN) where LE>>RE.

- 1A) Kindly construct and elaborate with a disease script highlighting the clinical presentation, clinical procedures, diagnostic tests, treatment options. (15)
- 1B) Apply the concept of Evidence based practice as you plan the clinical care for this patient. (5)

Answer all the questions.

2. Write about the principle, interpretation and clinical use for:

- 2A) OCT (5)
- 2B) Placido disc (5)
- 2C) Ultrasound biomicroscopy (5)
- 2D) Meibography (5)
- 3A) Describe the investigations and the management options of Sarcoidosis. (10)
- 3B) List the key pre-operative tests before cataract surgery. (10)
- 3C) A 35 year old male presented with a complaint of pain, redness, photophobia in his left eye for 1 day. He also complaint of constant rubbing of the eyes. On examination the left eye shows corneal abrasions and circum ciliary congestion. Tabulate the common ocular condition along with treatment options matching this clinical presentation. (10)
- 3D) 40 year old patient presented with a history of discomfort and "something growing" over the left eye for 10 years He is a Farmer. What is the tentative diagnosis and how will you manage this case? (10)
- 4A) What is the advantages and disadvantages of the MRI? (5)
- 4B) Explain the importance of Hertels exophthalmometer. (5)
- 4C) Describe the types of conjunctivitis. (5)
- 4D) A 9-year-old boy came with a history of reduced eye lashes noticed for a few months. No other ocular complaints. On slit lamp examination there were complete loss of eyelashes in the eyelids. What is the tentative diagnosis of this case and what are the treatment options for this case? (5)

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