

Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024
SUBJECT: OPT5201 - ADVANCED CONTACT LENS STUDIES
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1)
 - i) Describe fitting techniques for Boston scleral lens. (20)
 - ii) How will you assess the fit and document the findings for Boston scleral contact lens.
 - iii) Explain the importance of the lens dot.
- 2) Analyze the effect of hypoxia on cornea. Simplify corneal oxygen requirements and source of supply in open and closed eye condition? Describe oxygen transmissibility and mention the unit. (20)
- 3A) Identify the possible challenges that you may encounter while practicing silicone hydrogel contact lens. Outline silicone hydrogel as a contact lens material with examples. (10)
- 3B) Explain your plan of evaluation and management for a 21 years old male with heterochromia iridum. (10)
- 3C) Write a detail note on post penetrating keratoplasty and contact lens management. (10)
- 3D) Discuss the uses of therapeutic contact lenses. Explain the criteria for selecting the ideal contact lens for therapeutic purpose. (10)
- 4A) With example explain: (5)
 - i) How changes in base curve affect the back vertex power of the contact lens.
 - ii) How tear lens helps to manage 90% of corneal astigmatism.
- 4B) Compare between steep, flat and optimum fitting characteristics of RGP contact lens. (5)
- 4C) Write on the importance of contact lens case care in healthy contact lens wear. (5)
- 4D) Explain about various corneal infiltrates and outline the plan of management. (5)

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Question Paper

Exam Date & Time: 20-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024

SUBJECT: OPT5202 - OCULAR DISEASES - II
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Discuss the cataract post operative complication in following headings: (20)
 - i) Etiology
 - ii) Risk factors
 - iii) Complications
 - iv) Management

2. A 25-year-old female patient came with a history of irritation in both eyes x 18 months. Associated with discharge, itching, redness, and almost a complete loss of eyelashes. On examination visual acuity was OU: 6/6, N6 at 35 cm, loss of lashes, scanty and misdirection of lashes, and crusting of lashes, meibomian glands had crusting and plugging, conjunctiva congestion, corneal showed punctate epithelial erosions, marginal infiltrates, pannus and phlyctenule formation.
 - 2A) Kindly construct and elaborate with a disease script highlighting the clinical features, diagnosis, clinical types, diagnostic tests, treatment options. (15)
 - 2B) Apply the concept of Evidence based practice as you plan the clinical care for this patient. (5)

- 3A) Write in detail about pharmacological management on anterior and posterior Uveitis. (10)
- 3B) Describe the various types of slit lamp examination techniques and its importance in clinical practice. (10)
- 3C) Explain in detail about Lacrimal system disorder and its diagnostic test and management. (10)
- 3D) 18-year-old female presented with a complaint of gradual loss of vision in both eyes since 6months. BCVA was 6/18 and 6/60. There was no obvious abnormality on external examination except a mild munson's sign and distinct scissoring on retinoscopy OU. On slit-lamp biomicroscopy, both corneas were clear except for bilateral Fleischer rings noticed. Corneal topography showed Superior steepening and irregular asymmetric astigmatism are noted in both eyes. (10)
 - i) Comment on the clinical presentation and mention the tentative diagnosis.
 - ii) List down the evaluation and management option for this case.
- 4A) Describe pathophysiology of anterior Uveitis. (5)
- 4B) Describe the etiology and clinical features of thyroid eye disease. (5)
- 4C) Differentiate between pterygium and pseudoptyerigium. (5)
- 4D) Write about the types of corneal refractive surgeries. (5)

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