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MANIPAL UNIVERSITY

SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – JUNE 2014

SUBJECT: PAPER – VI: ADVANCED CONTACT LENS STUDIES – II

Monday, June 02, 2014

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

- ✍ **Attempt questions as instructed. Draw diagrams and flowcharts wherever necessary.**
✍ **Answer the following questions.**

1. How orthokeratology works on myopia? Describe the lens design. Mention about patient selection. Write your opinion regarding orthokeratology & myopia control. Explain different topography patterns due to orthokeratology. Describe the adverse responses related to orthokeratology.
(3+3+3+2+5+4 = 20 marks)
2. What are the indications for post refractive surgery contact lens fitting? Write about post penetrating keratoplasty contact lens fitting?
(4+6 = 10 marks)
3. Describe about a commercially available mini scleral contact lens design with example. Describe vault and mention its significance. Comment about care maintenance and risk of complication in scleral contact lens practice.
(3+2+5 = 10 marks)
4. Describe the clinical features of keratoconus and mention its differential diagnosis. Describe three latest contact lens correction options for moderate to advanced keratoconus.
(5+5 = 10 marks)
5. **Write notes on:**
 - 5A. Complication associated with therapeutic contact lens.
 - 5B. Overview of an aspheric multifocal contact lens and mention about its fitting strategy.
(5+5 = 10 marks)
6. Classify and write different types of colour vision defects. Write about newly developed procedures for colour vision assessment. Write a note on chromagen contact lens and compare its performance with X-chrome contact lens.
(3+2+5 = 10 marks)
7. What is transparent and opaque tinted contact lens? Describe two tinting process of making transparent tinted contact lens. Give overview of two cosmetic soft contact lenses available in Indian market and mention their specification.
(3+3+4 = 10 marks)



MANIPAL UNIVERSITY**SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – JUNE 2014****SUBJECT: PAPER – VII: OCULAR DISEASES AND THERAPEUTICS**

Wednesday, June 04, 2014

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

- ✍ **Answer all questions. Attempts Questions as instructed**
- ✍ **Draw diagrams or flowcharts wherever necessary.**

1. What is computer vision syndrome and explain the test used to diagnose this condition, explain the role of optometry care in clinical management. With help of diagram explain the tear structure and list the various common diseases that lead to reduced tear production and quality. What are the common therapeutic options available for treating tear deficiency?
(10+5+5 = 20 marks)
2. Patient complains of poor vision in right eye and was diagnosed to have macular Hole. What are the associated risk factors and differential diagnosis? How would you detect it in a regular clinical setup and what are the newer diagnostic methods available.
(5+5 = 10 marks)
3. What are the various clinical presentations of post cataract surgery complications and what are the tests (Clinical + Diagnostic) that help identify them at the respective stages.
(4+6 = 10 marks)
4. What are the indications for collagen cross linking procedure and explain the procedure in detail.
(4+6 = 10 marks)
5. What are the various clinical presentations of secondary glaucoma and what are the tests (Clinical + Diagnostic) that help identify them at the respective stages.
(4+6 = 10 marks)
6. Describe about the pathogenesis of congenital ptosis and what are the early signs & symptoms.
(4+6 = 10 marks)
7. What are the common ocular manifestation of AIDS and how would you ensure sterility to avoid iatrogenic (hospital originated) spread of the disease.
(6+4 = 10 marks)



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SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – JUNE 2014

SUBJECT: PAPER – VIII: CLINICAL IMAGING

Friday, June 06, 2014

Time: 10:00 – 11:30 Hrs.

Maximum Marks: 40

☞ **Attempt questions as instructed. Draw diagrams and flowcharts wherever necessary**

☞ **Answer all the following questions:**

1. Explain the following terminologies:

1A. Anterior chamber map

1B. Densitometry

1C. Absolute scale in topography

1D. Arm-retina time

(2½ marks × 4 = 10 marks)

2. **Write short notes on:**

2A. Capabilities of confocal microscopy

2B. Multifocal ERG

(5+5 = 10 marks)

3. What is the basic principle of Optical coherence tomography? Comment on the various scanning modalities of OCT. What are the components of OCT report?

(3+3+4 = 10 marks)

4. Write a short note on Scheimpflug camera? What are the clinical applications of Pentacam for anterior segment evaluation?

(5+5 = 10 marks)

