

MANIPAL UNIVERSITY**SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – MAY 2013****SUBJECT: PAPER – VI: ADVANCED CONTACT LENS STUDIES – II**

Monday, May 27, 2013

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

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

- 1A. Write an overview about how contact lens works in orthokeratology. Describe any contact lens design used widely in practice.
- 1B. Describe patient selection for successful orthokeratology practice. What are the unfavorable factors for orthokeratology?
- 1C. Briefly explain about ideal fitting pattern for any particular ortho-k contact lens design. Comment about retainer lenses for orthokeratology.
- 1D. Describe possible complication associated with orthokeratology.
- 1E. Can orthokeratology be used to control the progression of myopia? Justify your answer.
(5+5+5+3+2 = 20 marks)

2. A 31 years old male patient presents to you with complain of gradual dimness of vision and glare at night in both the eyes. He was operated for radial keratotomy 10 years back. Describe your methodology of work up and plan of management for this case.
(5+5 = 10 marks)

3. Write about indications of tinted contact lens. Describe two tinting process of making tinted contact lens. Give overview of two cosmetic soft contact lenses available in Indian market and mention their specification.
(2+4+4 = 10 marks)

4. Write a note on simultaneous vision correction for presbyopia.
(10 marks)

5. Write short notes on:

5A. SEAL

5B. RGP toric contact lens

(5+5 = 10 marks)

6. Write a note on hybrid contact lens fitting in keratoconus? What is Asymmetric Corneal Technology and mention its importance? How you would like to counsel a 22 years old moderate bilateral keratoconic male patient for C3R?
(4+2+4 = 10 marks)

7. Write a note on microbial keratitis.

(10 marks)



MANIPAL UNIVERSITY**SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – MAY 2013****SUBJECT: PAPER – VII: OCULAR DISEASES AND THERAPEUTICS**

Wednesday, May 29, 2013

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ **Answer all questions. Draw diagrams or flowcharts wherever necessary.**

✍ **Essay:**

1. Explain the techniques to assess Optic Nerve Head and its significance in Glaucoma diagnosis and management.

(20 marks)

✍ **Short questions:**

2. Write notes on:
 - 2A. Conjunctival papillae and Follicles
 - 2B. Subconjunctival Hemorrhage
3. Explain the intra-operative complications of Phaco-emulsification. What are the causes and management options of Endophthalmitis?
4. Discuss the causes of eye lid malpositioning. Explain the Clinical examination procedures of Ptosis.
5. Write a note on Retinoblastoma and its management.
6. What are the indications of Penetrating Keratoplasty? Write a note on its post-operative complications.
7. Discuss about Antihistamines and Mast cell stabilizers used in eye care.

(10×6 = 60 marks)



Reg. No.

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SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – MAY 2013

SUBJECT: PAPER – VIII: CLINICAL IMAGING

Friday, May 31, 2013

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. Describe the principle of Fundus fluorescein angiography by specifying anatomical and physiological aspects of ocular structures. Write a short note on abnormal angiographic patterns.

(5+5 = 10 marks)

2. Describe Scanning laser polarimetry (GDx) under the following headings:

2A. Principle

2B. Components of GDx report

2C. Strengths and limitations

(3+4+3 = 10 marks)

3. Explain the following terminologies:

3A. Raster lines

3B. Quad map

3C. Window Defects

3D. Arden Ratio

(2½+2½+2½+2½ = 10 marks)

4. Compare different types of confocal microscopes available in market. Write a short note on clinical and research applications of confocal microscopy.

(5+5 = 10 marks)

