

Reg. No.

MANIPAL UNIVERSITY

SECOND YEAR MASTER OF OPTOMETRY DEGREE EXAMINATION – MAY/JUNE 2012

SUBJECT: PAPER – VIII: CLINICAL IMAGING

Friday, June 01, 2012

Time: 10:00 – 11:30 Hrs.

Maximum Marks: 40

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

1. Describe the Posterior segment OCT under following headings:

- 1A. Different scanning modalities available
1B. RNFL thickness analysis and macular analysis report
1C. Strengths and limitations

(3+4+3 = 10 marks)

2. Compare Bausch & Lomb Orbscan II/IIz anterior segment analysis system with Pentacam. Give a brief description about data capturing and imaging techniques used in Pentacam.

(5+5 = 10 marks)

3. **Write Short notes on:**

- 3A. Interpretation of EOG plots
3B. Hazards and complications of Fluorescein Angiography
3C. Frequency doubling contrast test

(3+4+3 = 10 marks)

4. Write a note on focal electroretinogram and multifocal electroretinogram. Explain the patient set up and recording of electroretinogram.

(5+5 = 10 marks)



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

Monday, May 28, 2012 .

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

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

1. Give a brief idea about scleral contact lens design (for any particular design available widely in market) and mention how it works. Mention the indications for scleral contact lens and comment about its advantages and limitations. Describe fit assessment and briefly mention care and maintenance for scleral contact lens.
(4+2+3+2+3+3+3 = 20 marks)
2. Define extended wear. List contact lens options available and mention its care and maintenance. Write about possible complications associated with extended wear contact lens.
(1+4+5 = 10 marks)
3. **Write short notes on:**
 - 3A. Contact lens for colour vision defects
 - 3B. Problem during translating RGP bifocal contact lens fitting and its management
(5+5 = 10 marks)
4. Describe your patient evaluation, management and counseling for an 8 year old girl who presents to you with following specifications:
Best corrected spectacle refraction: (vertex distance 14 mm)
OD: -7.50 D Sph -2.50 D Cyl x 180° (6/12, N6)
OS: -1.00 D Sph (6/6, N6)
Slit lamp examination suggest all the structures within normal limit.
(3+5+2 = 10 marks)
5. What is reference marking for soft toric contact lens? Give overview of two widely used soft toric contact lens in Indian market. Discuss different methods can be used to measure the amount of rotation produced by a soft toric contact lens. How would you manage such rotation? Discuss with example.
(1+4+3+2 = 10 marks)
6. A 12 year old boy is brought to the clinic by parent with corneal opacity in right eye. The history was not so specific but they were discussing about some infection in right eye after ocular injury two years back. No document was found with them.
On examination, the best corrected visual acuity was found in R/E: HM+ and in L/E: 6/6, N6.
Slit lamp examination reveals no signs of active infection.
How would you like to handle this case? Write in detail.
(10 marks)
7. Write a note on corneal infiltrates.
(10 marks)



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SUBJECT: PAPER – VII: OCULAR DISEASES AND THERAPEUTICS

Wednesday, May 30, 2012

Time: 10:00 – 13:00 Hrs.

Maximum Marks: 80

✍ Answer ALL questions.

✍ Attempt questions as instructed. Draw diagrams and flowcharts wherever necessary.

1. Classify lens induced glaucoma. Write a note on irido corneal endothelial syndrome. Briefly explain the application of contact lens in treatment of glaucoma.
(10+5+5 = 20 marks)
2. Classify ocular injuries. Outline the factors responsible for onset of sympathetic ophthalmitis.
(5+5 = 10 marks)
3. Write note on:
 - 3A. CSME
 - 3B. CSR(5+5 = 10 marks)
4. Write a note on phacoemulsification. What are the new techniques available in cataract surgery?
(5+5 = 10 marks)
5. Describe the management of dry eye in detail.
(10 marks)
6. Write a note on:
 - 6A. Siderosis Bulbi
 - 6B. RAPD(5+5 = 10 marks)
7. Management of irregular astigmatism in keratoconus.
(10 marks)

