

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

THIRD YEAR B.Sc. OPTOMETRY DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: SQUINT AND BINOCULAR VISION

Thursday, December 08, 2005

Time: 3 Hrs.

Max. Marks: 80

☞ All questions are compulsory. Draw diagrams wherever necessary.

1. Elaborate on classification, signs and symptoms, diagnosis and treatment modalities of comitant esodeviations.
(20 marks)
2. Explain in detail on the anatomy and actions of individual-extraocular muscles.
(20 marks)
3. Write short notes on:
(8×5 = 40 marks)
 - 3A. A-V Phenomena.
 - 3B. Grades of binocular vision (explain with examples) and mechanism of binocular vision.
 - 3C. Tests for stereopsis.
 - 3D. Nystagmus.
 - 3E. Primary tests for squint assessment.



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THIRD YEAR B.Sc. OPTOMETRY DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: CONTACT LENS

Friday, December 09, 2005

Time: 3 Hrs.

Max. Marks: 80

All questions are compulsory. Draw diagrams wherever necessary.

1. What are the indications and contra-indications of contact lens?
(20 marks)

2. Elaborate on your methodology of work if a 12 year old female presents to your clinic for contact lens with a prior history of ocular consultation where she was diagnosed as having high irregular astigmatism.
(20 marks)

- 3A. Explain in detail on how you would dispense a toric soft contact lens?
- 3B. Give an account of the manufacturing processes of soft and rigid hard contact lens.
- 3C. What are the pre-fitting considerations and evaluations for aphakic contact lens fitting?
- 3D. What are the effects of contact lenses on corneal physiology?
- 3E. Ignoring any effects of contact lens on the tear layer, what power contact lens would be required for a patient whose refraction at a vertex distance of 15mm was:
i) -6.00 D ii) $+6.00\text{ D}$ iii) $+5.00\text{ D}/-10.00\text{ D cyl} \times 180^\circ$

(8×5 = 40 marks)



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THIRD YEAR B.Sc. OPTOMETRY DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: OCULAR DISEASES + EYE AND SYSTEMIC DISEASES

Monday, December 12, 2005

Time: 3 Hrs.

Max. Marks: 80

All questions are compulsory. Draw diagrams wherever necessary.

1. Classify ocular trauma. Describe the ophthalmic effects of blunt trauma.

(20 marks)

2. Describe the clinical features, diagnosis and treatment of bacterial keratitis.

(20 marks)

3. Short notes:

3A. Contact lens

3B. Toxic optic neuropathy

3C. Retinitis pigmentosa

3D. Exposure keratopathy

3E. Computer vision syndrome.

(8×5 = 40 marks)



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THIRD YEAR B.Sc. OPTOMETRY DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: LOW VISION AIDS

Tuesday, December 13, 2005

Time: 1½ Hrs.

Max. Marks: 40

☞ All questions are compulsory. Draw diagrams wherever necessary

1. A 12-year-old patient diagnosed to be having herido-macular degeneration with a visual acuity of 20/200 for distance has been referred to your clinic for required services. Kindly record your approach to this patient.

(20 marks)

2. Define:
- 2A. Low-vision.
- 2B. Clinical classification of low-vision.
- 2C. Criteria for low-vision services.

(10 marks)

3. What is Kestenbaum's rule? Comment on magnifiers and also deal with their optics.

(10 marks)



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THIRD YEAR B.Sc. OPTOMETRY DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: GERIATRIC OPTOMETRY AND PAEDIATRIC OPTOMETRY

Wednesday, December 14, 2005

Time: 1½ Hrs.

Max. Marks: 40

☞ All questions are compulsory. Draw diagrams wherever necessary

1. Discuss the examination of a three month old baby presented to your clinic for regular optometry consultation.
(20 marks)
2. Discuss the examination procedure that you would adapt for a pseudophakic patient who has come to your clinic after a period of one month.
(15 marks)
3. List the ocular diseases that are common in geriatric population.
(5 marks)

