

Question Paper

Exam Date & Time: 25-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024
SUBJECT: OPT6012 - PUBLIC HEALTH AND COMMUNITY OPTOMETRY
(2021 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Design a community level preventive model for any one paediatric and non-communicable eye disease at Udupi district. (20)
- 2A) A cement factory in Udupi has approached your clinic to conduct an eye screening camp for the employees at their factory. Describe about your plan to conduct Industrial vision screening camp at their factory and explain about the occupational counselling that you would suggest each employee. (10)
- 2B) Leading optical store has recently recruited you as a professional service head. You have been asked to Create Quality assurance for their chain of opticals & optometry practices. Construct a Quality management table: (10)
 - i) List the important Dimension and key players in such optical practice.
 - ii) Prepare Quality Management Table for this program.
- 3A) The classification of visual impairment was updated in 2010. Justify the change. (5)
- 3B) Explain the different levels of disease prevention with appropriate examples. (5)

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MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024
SUBJECT: OPT6022 - VISUAL PSYCHOPHYSICS
(2021 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1) | Design your own psychophysical experiment and explain the different factors that you would consider before starting the experiment. | (20) |
| 2A) | What do you understand by 2AFC? Explain with an example. | (10) |
| 2B) | What do you understand by Mean, Median and Mode, Explain by using an example dataset of 10 observations? | (10) |
| 3A) | What do you understand by sensitivity of a psychophysical test? Explain with an example. | (5) |
| 3B) | What is a hypothesis? Define what do you mean by "Null" Hypothesis. | (5) |

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Question Paper

Exam Date & Time: 27-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024
SUBJECT: OPT6201 - APPLIED VISION THERAPY
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1A) Explain the decision-making tree of oculomotor dysfunction therapy (OMD). (5)
- 1B) Mention the general principles of management OMD. (5)
- 1C) Describe the principles of Developmental and Functional oculomotor Dysfunction. (10)
2. A 14-year-old boy diagnosed with Autism with complaints of minimal eye contact and showing few behavioural issues.
- 2A) Explain the visual problems associated with the condition. (5)
- 2B) Describe the clinical assessment to be performed on a child. (5)
- 2C) Elaborate on optometry behavioural therapy for this child. (10)
- 3A) Discuss the Convergence- insufficiency treatment trial in terms of the nature of interventions and study outcomes. (10)
- 3B) A six-year-old male child presented with esotropia in both eyes. Visual acuity OD:6/9; N6 and OS:6/18; N8(aided), Stereo acuity: 800sec of arc, no suppression. Based on the given signs and symptoms comment on the case and elaborate on the optometry management for the case. (10)
- 3C) What are the indications of visually related poor sports performance and describe in detail the attributes of sports vision therapy activities. (10)
- 3D) Elaborate on the evaluation and management of Developmental Visual Information Processing Disorders. (10)
- 4A) Explain how orthoptics is different from vision therapy and how it plays an important role in efficient visual function. (5)
- 4B) Explain the behavioural milestones in visual development. (5)
- 4C) Discuss the vision therapy sequencing principles in non-strabismic binocular vision anomalies. (5)
- 4D) Describe the pre and post-vision therapy evaluation and follow-up schedule for a 14-year-old boy with anisometropic amblyopia. (5)

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Question Paper

Exam Date & Time: 29-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - JUNE 2024
SUBJECT: OPT6202 - LOW VISION AND REHABILITATION
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Explain in detail about the need and the aim of the Orientation & Mobility training program. Discuss the various techniques used in current practice for orientation and mobility training. (20)
- 2) Describe the concept of inclusive education for children with disabilities and explain the general barriers, strategies, and recommendations for inclusive education in India. (20)
- 3A) Explain the guidelines and requirements for setting up low-vision clinic in India. (10)
- 3B) A 32 year old female working as social health worker, is diagnosed with moderate visual impairment. She is having difficulty in mobility, reading and writing because of reduced vision. Describe various recent advancement in low vision aids that can help her in day to day activity. (10)
- 3C) What is multidisciplinary team approach in low vision? List the team members and explain their roles in low vision intervention. (10)
- 3D) Explain the different types of visual field expanders used for central and peripheral field defects. (10)
- 4A) Explain evaluation procedures and low-vision treatment strategies for patients with multiple disabilities. (5)
- 4B) Describe the epidemiology and the control measures for the global causes of blindness. (5)
- 4C) Write the advantage and disadvantages of using Bioptics for driving. (5)
- 4D) Describe the standard testing sequence of Berkeley's rudimentary vision test. (5)

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