

Question Paper

Exam Date & Time: 28-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - MAY 2022
SUBJECT: MOP 702 - VISUAL NEUROSCIENCE AND PSYCHOPHYSICS
(2018 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Let's say we place a high pass filter between eye and striate cortex. A high pass filter will allow only high spatial frequency information to pass through it. How would be the image represented in the brain? What would be the expected visual acuity? (10)
- 1B) Draw a schematic diagram of visual pathway from LGN to all the way to higher cortical regions (10)
- 2A) What are the four psychophysical methods to measure threshold? Explain each in detail (10)
- 2B) What is glia cells? What are the types of glia cells? (10)
- 3A) What are the stimulus required for binocular vision? (5)
- 3B) What are seven steps in neurotransmission? (5)

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Question Paper

Exam Date & Time: 30-May-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER MASTER OF OPTOMETRY DEGREE EXAMINATION - MAY/JUNE 2022
SUBJECT: MOP 704 - EPIDEMIOLOGY AND PUBLIC HEALTH
(2018 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

1. 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.

- 1A) List the important Dimension and key players in such optical practice. (5)
1B) Prepare Quality Management Table for this program. (15)

2. A 32 years old carpenter was brought to emergency OPD, post injury to his left eye while working in his wood lathe machine. Discuss the case under following headings:

- 2A) Ocular evaluation and detailed clinical findings. (4)
2B) Management Strategy. (3)
2C) Occupational counselling and protective device. (3)

- 3) Explain the difference in Public Health - eye care Policy in Developed & developing countries? (10)
4A) Explain the importance of customer satisfaction as part of quality in health care system. (5)
4B) Explain how evidence based public health policy has refined community based glaucoma screening strategy. (5)

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