

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 1624

(OCTOBER 2020 EXAM SESSION)

M.OPTOM

FIRST YEAR (From 2018-2019 onwards)

PAPER IV – PAEDIATRIC OPTOMETRY AND BINOCULAR VISION

Q.P. Code : 281624

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate notes on:

(2 x 20 = 40)

1. A seven-month old infant was diagnosed with congenital cataract in both the eyes. Post cataract surgery the child was able to fixate and follow objects well at near distance. Fixation preference testing revealed CUSM and CUSUM in the right and left eye respectively. The child had small amplitude and moderate frequency jerk nystagmus in both the eyes. The child was prescribed +19.00DS bifocal spectacles with +3.00DS addition in both the eyes.
 - a) Write in detail about Congenital Cataract; causes, epidemiology, clinical signs, investigations and management options (15 marks)
 - b) What can be the further steps in the management of the above case (5 marks)
2. Discuss in detail about the following:
 - a) Development of stereopsis in infants (10 marks)
 - b) Development of scotopic retinal sensitivity (10 marks)

II. Write Short Notes on:

(10x6 = 60)

1. Explain the various vision assessment methods in assessing infants.
2. Discuss about the various learning related vision problems and its management in children.
3. Discuss about prism management in phorias and tropia.
4. Describe the role of atropine in myopia management.
5. Write in detail about Accommodative insufficiency and Accommodative infacility.
6. Discuss in detail about the pathophysiology, diagnostic tests and management of Third nerve palsy.
7. What are the different factors to be considered before prescribing refractive error correction in children.
8. What are the factors to be considered before prescribing contact lens in children.
9. Discuss in detail about ROP and its management.
10. What are the different types of Nystagmus and its available management options.
