

**First Year Master of Optometry Degree Regular/Supplementary
Examinations November 2024****Paediatric Optometry****Time: 3 Hours****Total Marks: 80**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay**(20)**

1. A 5-year-old boy visited hospital due to poor vision in both eyes. He had a history of nystagmus, photophobia and poor vision since he was an infant. His mother took him to see many ophthalmologists, hyperopic refractive error was diagnosed but his vision slightly improved with glasses. He was the first child with one younger brother in the family. His brother was healthy and had normal vision. No one in the family had symptoms the same as him

He was a well-baby and had a history of normal labour. He was referred to the Hospital for further investigation. His visual acuity was finger counting both eyes (without glasses) and 20/400 both eyes (with hyperopic glasses). He had nystagmus and photophobia, slit lamp examination and fundoscopy were normal both eyes. His refraction was +5.50D/ -0.50 axis 165° in the right eye and +5.75D – 0.75 axis 10° in the left eye. A colour vision test revealed total colour blindness in both eyes.

- a) Which colour vision test would you perform. Justify your answer
- b) What other clinical test would you like to perform, for the diagnosis of the condition
- c) What are the differential diagnosis for this boy with poor vision with total colour blindness
- d) How would you manage the boy in your clinical practice

(5+5+5+5)**Short Essays****(6x10=60)**

2. Explain the clinical features (signs and symptoms) of primary congenital glaucoma. Write a note on the clinical evaluation for the diagnosis of the condition
3. Enlist the differential diagnosis for infantile corneal opacities and write about the clinical methods for diagnosis
4. Write in detail about the clinical examinations to be done for the diagnosis of congenital ptosis
5. Explain in detail about the various types of nystagmus seen in pediatric practice. Write the specific testing for nystagmus and optometric management of the same
6. Write an essay on the pediatric spectacle dispensing under the lens selection, frame selection and the conditions in which glasses are prescribed and precautions to be taken while dispensing the spectacles
7. Enlist and explain the ocular structures developed at each stage of embryo from the germinal layers of ectoderm and endoderm
