

The APOLLO UNIVERSITY
Saketa, Chittoor, AP
AHS- V Semester End Examination, June-2024
Paper-II-OPTT 3502 – PAEDIATRIC OPTOMETRY AND
BINOCULAR VISION

Time: 3 hours

Max. Marks: 60

Section –A (10x2=20 marks)

Answer all Questions

1. Name any four methods used to assess visual acuity in infants.
2. What are the risk factors for the development of Retinopathy of Prematurity?
3. What is NPA and NPC? Name any one test each to quantify the same.
4. Name any four genetic disorders associated with pediatric low vision.
5. What is stereopsis?
6. What is Amblyopia?
7. What are the three Axes of Fick?
8. What is Hering's Law of equal innervation?
9. Define accommodation in the context of vision.
10. What is 'tonic convergence' and 'fusional convergence'?

Section –B (5X8=40 marks)

Answer all Questions either A or B in 400 words each

11. A) Elaborate on behavioural development in coordination with the visual system considering the areas of development.

OR

B) Discuss the etiology, pathophysiology, stages, and management of Retinopathy of Prematurity.

12. A) Brief on low vision evaluation in Paediatrics including causes, genetic associations, and psychological impact.

OR

B) Explain the background, procedure, and interpretation of assessing the squint through the Hirschberg test.

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13. A) Explain the background, procedure, and interpretation in assessing the stereopsis through the Frisby test.

OR

B) Explain the background, procedure, and interpretation of assessing colour vision through Ishihara colour vision plates.

14. A) Analyse the blood supply to the extraocular muscles, including the contribution of the ophthalmic artery and its branches.

OR

B) Compare and contrast between version and vergence movements, providing examples of each.

15. A) Describe the steps involved in the accommodation process and how it adjusts for near vision.

OR

B) Compare different methods used to measure convergence and their effectiveness.
