

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)**

M.OPTOMETRY DEGREE EXAMINATION – January 2021

Second Semester

PEDIATRIC OPTOMETRY & BINOCULAR VISION

Three Hours

Maximum: 100 marks

I. Choose the Best Answer :

(20 x 1 = 20)

1. The period during which the visual system is influenced by environmental manipulation is referred as
 - a. Developmental period
 - b. Critical period
 - c. Pre developmental period
 - d. Post developmental period
2. _____ is responsible for detecting head rotation and provide rotational component.
 - a. Otoliths
 - b. Semicircular canals
 - c. Vestibular nuclei
 - d. Oculomotor nuclei
3. The field in front and behind the horopter in which the extended diplopia does not occur is _____
 - A. Horopter
 - B. Panum's fusional space
 - C. Fusion
 - D. Stereopsis
4. The stereoacuity threshold for static targets is in the range of
 - A. 12 – 20 arc sec
 - B. 3 – 8 arc sec
 - C. 2-10 arc sec
 - D. 10 – 15 arc sec
5. When the horopter changes shape at different fixation distances, what happens to the value of the Hering-Hillebrand deviation?
 - A. It increases
 - B. It decreases
 - C. It does not change
 - D. It will increase by multiples of 2 depending on the fixation distance
 - E. The horopter does not change shapes and the value of the Hering-Hillebrand deviation becomes more negative at further fixation distances.

(p.t.o)

6.age can a child start wearing contact lens?
a) 13-14 years b) 5-6 years c) above 17 years d) none
7. What are the signs that you need glasses.....
a) Eye strain b) headaches c) head tilt d) all of the above
8. An infection that starts suddenly is called as.....
a) Acute dacryocystitis b) dacroadenitis c) chronic dacryocystitis d) acute dacryo adenitis
9.is the treatment for amblyopia
a) Glasses b) contact lenses c) eye patching d) both a& b
10. Math dyslexia is actually a disorder called.....
a) Dyscalculia b) dysgraphia c) surface dyslexia d) double deficit dyslexia
11. Growth of abnormal cells in the brain are called as.....
a) Myasthenia gravis b) neurofibromatosis c) brain tumor d) horner's syndrome
12. . Thetest is a basic test for fusion for children upto 5 years of age.
a) 20 prism base out b) 5-10 prism base out c) 20 prism base in d) 10 prism base in
13. The Rods and the Cones synapse directly on to_____
a) Horizontal Cells b) Amacrine Cells c) Ganglion Cells d) Bipolar Cells
14. Neurons that are stained by cytochrome oxidase in the visual cortex are sensitive to _____
a) Colour b) The orientation of lines c) Depth cues d) Moving stimuli
15. Cortical modules contains _____
a) Ocular Dominance Columns b) Cytochrome Oxidase c) Orientation Columns d) All the above
16. Color constancy is served by the mechanisms of
a) chromatic adaptation b) memory color c) All of the above d) None of the above

(p.t.o)

17. Choose the incorrect sentence
- a) visual acuity is highest at the fovea and increases rapidly with eccentricity
 - b) foveal vision is very sensitive to optical defocus
 - c) visual signals from the fovea control accommodation
 - d) foveal vision dominates our perception of the world
18. According to the logistic growth model, the parafoveal visual threshold is _____ above that of an adult's threshold at 19.5 weeks
- a) 0.5 log unit
 - b) 0.4 log unit
 - c) 0.3 log unit
 - d) 0.2 log unit
19. Abbreviation of CLAMP study
- a) Contact Lens and Myopia Prevention study
 - b) Contact Lens and Myopia Progression study
 - c) Contact Lens and Myopia Protection study
 - d) Contact Lens and Myopia Protrusion study
20. Computer work is more myopigenic than reading a book at the same distance
- a) True
 - b) False

II .Write an Essay on:

(4 x 10 = 40)

- 21. What is the Vestibulo Ocular reflex and its pathway?
- 22. Write a brief note on development of scotopic sensitivity
- 23. Explain about dyslexia, and its symptoms signs complications and treatment?
- 24. Explain about the development of the Retina

III .Write an Long Essay on :

(2 x 20 = 40)

- 25. Development of BSV?
- 26. Write about common genetic problems in pediatric patients?

(S.No.M23292)

$$(2 \times 20 = 40)$$