Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore - 641 043
Continuous Internal Assessment I February -2025
IV Semester

Class : II UG **Time : 2 Hours**
Branch : OPTOMETRY **Max. Marks : 60**

22BOPC29 - MONOCULAR SENSORY PERCEPTION

Course Outcomes:

CO1: To appreciate the physiology of vision.
CO2: To equip on visual psychophysics.
CO3: To visualize the spatial and temporal aspects of vision.
CO4: To decipher the theories, pathways and principles behind colour vision and colour vision testing.
CO5: To recognize the perception of objects, motion and depth.

Part A
Choose the Correct Answer

6 x 1 =6marks

1.The tendency to see the depth is the function of…… CO1K1
a . Cones b. rods
c. RPE d. Vision

2.The convergence of…… make them a better light detector CO1K1
a. Bipolar cells b. Cones
c. Amacrine cells d. rods

3. The cells involved in lateral interactions are CO1K2
a. Neural cells b. Bipolar cells
c.Amacrine cells d. Ganglion cells

4.The retinal…… will be reduced even more by light scattered within the eye. CO2K1
a. Illuminance b.luminance
c.sensitivity d.field of view

5. The glare recovery time for people around 80 years increases to about…….. CO3K1
a.5min b.50sec
c.2min d.25 sec

6.The threshold value for fovea is CO3K1
a. 34dB - 40dB b.20dB-30 dB
c.120dB - 200dB d. 60dB -80dB

Part B **3 x 6 = 18**
Answer ALL questions
Each answer should not exceed 400 words or two pages

7.a.Discuss on the types of ganglion cells (or) CO1K1
7.B.Write a note on ON & OFF centre Bipolar cells CO1K2
8.A.Write a note on duplex retina (or) CO1K2
8.B Write a note on scotopic and photopic vision CO2K1
9.A. Write the differences between Photometry and radiometry (or) CO2K4
9.B.Explain about Contrast Sensitivity 'function CO3K2

Part C **3 x 12 = 36**
Answer ALL questions
Each answer should not exceed 800 words or four pages

10.A.Write a note on retinal visual pathway (or) CO1K1
10.B.Explain briefly about photo-transduction CO1K2
11.a.Write a note on five neurons involved in processing vision (o r) CO2K2
11.b.Define Psychophysics, need to study and its implications. CO2K1
12.a.Summarize the methods of testing visual threshold (or) CO3K2
12.b b.Discuss the pathologies that affect the visual functioning CO3K1

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20 copies Staff: Mrs. Supraja K