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

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

22BOPC24 - 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 …… can effect the accuracy and reliability of psychophysical measurements. CO2K1
a.stimulus size b.threshold
c.noise d.lighting level

2.The …… law states threshold for a stimulus is inversely proportional to duration CO3K1
a. Bloch's law b. Nyquist
c. Weber's law d. ricco's law

3. The sensitivity of human eye to different wavelength of light is…. CO3K2
a. Photometry b. Vλ function
c.Radiometry d. Luminance

4.The Modulus transfer function is a measure of…… CO3K1
a . Contrast sensitivity b. Spatial resolution
c. Chromatic aberration d. Temporal resolution

5.The ishihara test is used to assess….colour deficiency CO4K1
a . Red-green b. B l u e - Y e l l o w
c. Total colour blindness d. Blue Green

6.The depth perception ca be achieved through CO5K1
a. Monocular cues b.Binocular cues
c.Both a & b d. Stereopsis

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

7.a.Discuss on the staircase method of determining threshold (or) CO2K2
7.B.Write a note on p h o t o p i c l u m i n o s i t y f u n c t i o n . CO3K2
8.A.Enumerate the photometric units (or) CO3K2
8.B Write a note on MTF and CFF CO4K2
9.A. Expain the theories of colour vision (or) CO4K2
9.B.Explain about motion percetion and form perception CO5K2

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

10.A.Enumerate the methods of determining threshold (or) CO2K2
10.B.Explain i) Weber'slaw, ii) Fechner's law iii)Bloch's law iv)Ricco's law CO2K2
11.a.Write a note on different types of acuity and contrast sensitivity (o r) CO3K2
11.b.Distinguish Temporal and spatial summation . CO3K1
12.a.Summarize the methods of testing colour vision (or) CO4K2
12.b b.Discuss the monocular cues for binocular vision CO5K1

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