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

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

22BOPC20 Visual Optics - II

Course Outcomes:

CO1: To conceptualize various optical components of eye, types of refractive errors and its management.
CO2: To learn the concept of accommodation and convergence in detail.
CO3: To gain knowledge on objective refraction and its type.
CO4: To understand various methods used to achieve accurate subjective refraction.
CO5: To learn the concept of ocular and spectacle refraction.

Part A **6 x 1 =6**

Choose the Correct Answer

1. High minus lens produces which type of distortion CO1K1
   a. Pincushion b. Barrel shaped c. Prismatic d. Oblique
2. The change in focal length of an eye is caused by the action of the CO2K1
   a. Pupil b. Crystalline lens c. Retina d. Ciliary muscles
3. The net retinoscopic value reveals -1.50DS at 67cm, what will be gross retinoscopic value CO3K1
   a. +1.50DS b. Plano c. -3.00DS d. None of the above
4. Roving ring scotoma is seen in which condition CO1K1
   a. Aphakia b. Pseudophakia c. Amblyopia d. Anisometropia
5. AC/A ratio is high in CO2K1
   a. Emmetropia b. Hypermetropia c. Myopia d. None of the above
6. The gross retinoscopic value reveals +1.00 / -1.50*180 at 50cm, what will be net retinoscopic value CO3K1
   a. +3.00/-1.50*180 b. +1.00/-1.50*180
   c. -1.00/-3.50*180 d. -1.00/-1.50*180

Part B **3 x 6 = 18**

Answer ALL questions

Each answer should not exceed 400 words or two pages

7.a. Explain about amblyopia and its types (or) CO1K2
7.b. Write a note on presbyopia CO2K2
8.a. Write a note on aphakia (or) CO1K2
8.b. Write a note on astigmatism and its types CO1K2
9.a Explain the principle and optics of retinoscope (or) CO3K2
9.b Write a note on methods of AC / A ratio measurement CO2K2

Part C **3 x 12 = 36**

Answer ALL questions

Each answer should not exceed 800 words or two pages

10.a. Write a note on anisometropia & aniseikonia (or) CO1K3
10.b. Explain about myopia, its types and its management in detail CO1K3
11.a. Write a note on accommodative anomalies with its management (or) CO2K2
11.b. Write a note on convergence anomalies with its management CO2K2
12.a. Explain about hypermetropia, its types and its management in detail (or) CO1K3
12.b. Describe in detail about retinoscopy procedure CO3K3

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18 Copies **Staff Incharge: Ms. Mohana Sundari S.B**