



Avinashilingam Institute for Home Science and Higher Education for Women  
Coimbatore - 641 043

Continuous Internal Assessment I February -2025

II Semester

Class : I UG  
Branch : OPTOMETRY

Time : 2 Hours  
Max. Marks : 60

**22BOPC08 - Ocular Physiology**

**Course Outcomes:**

CO1: To inspect the physiology of cornea, dynamics of aqueous humor, eyelids and tear film.

CO2: To interpret physiology of lens, vitreous humor, retina, optic nerve and circulation.

CO3: To investigate the physiology of extra ocular muscles

CO4: To examine the physiology of pupils, accommodation and intra ocular pressure

CO5: To understand the neurophysiology of vision.

**Part A**

**6 x 1 = 6**

**Answer ALL questions**

**Choose the Correct Answer**

1. The layer of tear film that prevents evaporation of tears is C01K1
  - a. Aqueous layer
  - b. Mucin layer
  - c. Lipid layer
  - d. Epithelium layer
2. The normal blink rate is..... C01K1
  - a. 2-6 blinks/min
  - b. 10-12 blinks/min
  - c. 20-30 blinks/min
  - d. 14 blinks/min
3. The layer of cornea that is capable of repairing itself is..... C01K1
  - a. Epithelium
  - b. Stroma
  - c. Endothelium
  - d. Descemet's membrane
4. The longest extra ocular muscle is..... C02K1
  - a. Superior rectus
  - b. Superior Oblique
  - c. Inferior rectus
  - d. Inferior Oblique
5. The Aqueous Humor is drained by..... C01K1
  - a. Ciliary body
  - b. Cornea
  - c. Trabecular meshwork
  - d. Episcleral Veins
6. Red coloured vessels in cornea indicate.....vascularisation C01K1
  - a. Deep
  - b. Superficial
  - c. intermediate
  - d. Pannus

**Part B**

**3 x 6 = 18**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 7.a. Illustrate and explain the Tear film layers (or) C01K2
- 7.b. Illustrate and explain the Tear film producing glands and drainage C01K2
- 8.a. Summarize on Aqueous production (or) C01K2
- 8.b. Summarize on functions of Uvea and aqueous humor. C01K2
- 9.a. Short note on Extra ocular muscles and its functions (or) C02K2
- 9.b. Tabulate the primary, secondary and tertiary actions of muscles C02K3

**Part C**

**3 x 12 = 36**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

- 10.A. Explain in detail about Physiology of Cornea (or) C01K2
- 10.B. Explain briefly Corneal hydration, vascularisation and transparency C01K2
- 11.a. Discuss on aqueous production and drainage (or) C01K2
- 11.b. Summarize the Functions of Tear film and its production C01K2
- 12.a. Outline on the mechanism of blinking (or) C01K4
- 12.b. Discuss about pupils and the pupillary pathway with a neat diagram C03K2

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