



**Avinashilingam Institute for Home Science and Higher Education for women
Coimbatore -641043**

**Continuous Internal Assessment I FEBRUARY-2025
II Semester**

**Class: I UG
Branch : Optometry**

**Time: 2 Hours
Max Marks: 60**

22BOPC07-Ocular Anatomy

Course Outcomes:

- CO1: To investigate the growth of human eye.
CO2: To apprehend the anatomy of orbit.
CO3: To analyze the anatomy of cornea and the anterior segment of eye.
CO4: To look into the anatomy of posterior segment of the eye.
CO5: To observe the anatomy of conjunctiva and lacrimal apparatus.

Part A Choose the Correct Answer 6 × 1= 6

1. The lens vesicle forms from the invagination of which structure? **CO1K1**
a) Optic vesicle b) Lens placode c) Surface ectoderm d) Neural tube
2. The orbit develops from which tissue? **CO1K1**
a) Surface ectoderm b) Lens placode c) Neural tube d) Mesenchyme
3. Which nerve provides sensory innervation to the orbit and eyelids? **CO2K2**
a) Oculomotor nerve b) Trochlear nerve c) Trigeminal nerve d) Facial nerve
4. Which glands secrete an oily substance to lubricate the eyelids? **CO2K2**
a) Meibomian glands b) Glands of Zeis c) Glands of Moll d) All of the above
5. The main function of the orbicularis oculi muscle is to, **CO2K1**
a) Open the eyelids b) Close the eyelids c) Control lens shape d) Move the eyeball
6. The nasolacrimal duct carries tears into the: **CO3K1**
a) Lacrimal sac b) Nasal cavity c) Lacrimal gland d) Lacrimal puncta

Part B Answer ALL the questions 3× 6= 18

Each answer should not exceed 400 words or two pages

- 7.A. Explain the development of accessory structures of eyeball. **CO1K2**
- 7.B. Describe the formation of optic vesicle and optic stalk, lens vesicle. **CO1K2**
- 8.A. Sketch a neat diagram of corneal layers and list out the names of each layers. **CO1K3**
- 8.B. Explain about the Lacrimal passages **CO3K2**
- 9.A. Enumerate about orbital part and palpebral part of lacrimal gland. **CO3K1**
- 9.B. Tabulate the Extraocular muscles, cranial nerves and mention the nerves responsible for ocular function. **CO2K1**

Part C Answer ALL the questions 3× 12= 36

Each answer should not exceed 800 words or four pages

- 10.A. Describe the Milestones in the development of the eye. **CO1K2**
- 10.B. Enumerate the Walls of the orbit. **CO1K1**
- 11.A. Explain the development of various structure of eye ball with diagram. **CO1K2**
- 11.B. Discuss about Lacrimal Apparatus with diagram. **CO3K2**
- 12.A. Describe the Anatomical structure, glands, nerves and blood supply of lids. **CO2K2**
- 12.B. Explain the Bony orbit - Size, shape and relations, walls of the orbit. **CO2K2**

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staff name:Nandhini G