Anatomical Study of the Eye

Experiment 32 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify the main structures of the eye on models, charts or preserved teaching material.

Principle

Transparent optical components focus light on a sensory retina. Structural relationships help explain the physiological function.

Structures and Functional Link

- Cornea, sclera, iris, lens, retina, optic disc and optic nerve.
- Cornea → aqueous region → pupil → lens → vitreous → retina → optic nerve pathway.
- The lens changes optical power during accommodation.

Requirements

- Eye and associated optical structures model or chart
- Institution-approved preserved demonstration material if available
- Labelled drawing sheet

Procedure

1. Orient

Identify the anatomical position and major divisions of the model or chart.

2. Identify

Locate and label: Cornea, sclera, iris, lens, retina, optic disc and optic nerve.

3. Trace function

Cornea → aqueous region → pupil → lens → vitreous → retina → optic nerve pathway.

4. Compare structures

Relate tissue or organ design to its major function.

5. Record

Draw a labelled schematic and explain the functional pathway in your own words.

Observations and Record

Structure / pathway	Identification / function
Main structures	_____
Inlet / outlet or connections	_____
Labelled drawing	_____
Functional pathway	_____
Structure-function explanation	_____

Result

The main structures were identified and labelled as _____. The functional pathway was explained as _____.

Precautions

- Handle museum material only as authorised.
- Use the provided orientation rather than assuming left/right from the viewer's position.
- Do not infer a patient diagnosis from the teaching model.

Viva Questions and Answers

1. Which structures should be identified?

Cornea, sclera, iris, lens, retina, optic disc and optic nerve.

2. What pathway should be traced?

Cornea → aqueous region → pupil → lens → vitreous → retina → optic nerve pathway.

3. What key concept is illustrated?

The lens changes optical power during accommodation.

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