



Candidate Number

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**OPHTHALMIC BASIC SCIENCE EXAMINATIONS
ANATOMY**

18 April 2008

Duration of paper:

3 hours

Total Marks: 120

Total No. of questions:

26 (Sections A and B)

- ◆ Candidates must attempt all questions
- ◆ If you cross out an area of your own writing, it will not be considered by the examiners
- ◆ Please write legibly

SECTION A

- ◆ Write your answers in the spaces provided using LEGIBLE writing, use diagrams and point form where appropriate
- ◆ All twenty questions should be attempted.
- ◆ Each question is worth 3 marks.

Question 1

List the actions of the inferior oblique muscle.

Question 2

List the arteries found in the upper eyelid.

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Question 3

List the structures that pass through perforations of the sclera.

Question 4

Name four functions of the retinal pigmented epithelial cells.

Question 5

List the three nuclei of the facial nerve.

Question 6

Name the structures seen on gonioscopy of the anterior chamber angle of a normal open-angled eye, from anterior to posterior.

Question 7

List the connections of the accessory parasympathetic (Edinger-Westphal) nucleus.

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Question 8

List the bones that form the medial orbital wall.

Question 9

List the 3 layers of the tear film and approximate thickness.

Question 10

List the branches of the sensory maxillary division (V2) of the trigeminal nerve.

Question 11

List the glands of the eyelid (excluding the lacrimal gland).

Question 12

Give the embryological origin of each of the following:

- a) sensory retina _____
- b) choroid _____
- c) the lens of the eye _____

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Question 13

The orbit communicates with which fossae or cavities of the skull?

Question 14

List the layers of Bruch's membrane.

Question 15

List the light microscopic layers of the retina (from inside outwards).

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Question 16

Name the arteries that supply the lateral surface of the cerebrum.

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Question 17

Name the parts of the optic nerve and state the approximate length of each part.

Question 18

List the attachments of the levator palpebrae superioris aponeurosis.

Question 19

List the distances between the limbus and the tendinous insertions of the four recti muscles.

Question 20

Name three tributaries which drain into the cavernous sinus.

END OF PAPER: SECTION A

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SECTION B

- ◆ This section contains six (6) short essays
 - ◆ Each question is worth 10 marks
 - ◆ Candidates must attempt all questions
 - ◆ Make sure to put your candidate number on the top of each page
 - ◆ Start a new page for each question
 - ◆ Do not write on the reverse of any answer booklet page
 - ◆ Write your answers in the answer booklet using LEGIBLE writing
 - ◆ Labelled diagrams and common abbreviations may be used where appropriate
 - ◆ If you cross out an area of your own writing, it will not be considered by the examiners
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Question 1

Describe the location of the optic chiasm, its relationships to surrounding structures and the visual field changes that result from chiasmal compression.

Question 2

Describe the origin, course and distribution of the Oculomotor nerve.

Question 3

Give an account of the blood supply of the optic nerve.

Question 4

Describe the morphology, ultrastructure, attachments of the vitreous body.

Question 5

Describe the structure of the human lens.

Question 6

Describe the stroma of the cornea, including its microstructure and nerve supply.

END OF PAPER: SECTION B