



Candidate Number

**The Royal Australian and New Zealand
College of Ophthalmologists**

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**OPHTHALMIC BASIC SCIENCE EXAMINATIONS
ANATOMY
06 November 2009**

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

Name three sinuses that open into the middle meatus.

Question 2

Name three bones which form the boundaries of the pterygopalatine fossa.

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Question 3

List the actions of the superior oblique muscle.

Question 4

List the actions of the inferior rectus muscle.

Question 5

List the layers of Bruch's membrane.

Question 6

List the attachments of the levator palpebrae superioris aponeurosis.

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Question 7

List the sensory nerves supplying the cranial dura anterior to the level of the vertex.

Question 8

Describe the sensory innervation of the upper eyelid.

Question 9

List the features that are specific to the trochlear nerve and not shared by other nerves (excluding the muscle supplied by it).

Question 10

Name parts of the ethmoid bone that contribute to the lateral wall of the nose.

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Question 11

Name the cells of the epithelium of the bulbar conjunctiva.

Question 12

Name the 3 main layers of the choroid.

Question 13

Name the arterial blood supply to the thalamus.

Question 14

Name the cranial nerves which transverse within the lateral wall of the cavernous sinus.

Question 15

Where does abducent nucleus RECEIVE projections from?

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Question 16

Describe the anatomical structures which are firmly adherent to the vitreous cortex.

Question 17

Name the vascular connections (e.g. plexus, vein, or sinus) that communicate with the cavernous sinus.

Question 18

Name the structures that transverse the Foramen Ovale.

Question 19

Name the branches of the nasociliary nerve.

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Question 20

Name the muscles that are innervated by the Mandibular division of the Trigeminal nerve.

END OF 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 anatomy of the ciliary body, including innervation and blood supply.

Question 2

Describe the bony four walls of the orbital cavity. Include diagrams of each orbital wall.

Question 3

Describe the pathway of pupillary light reflex.

Question 4

Describe the blood supply of the retina.

Question 5

Describe the neural pathway responsible for the reflex tear production in the response to corneal stimulation.

Question 6

Describe the venous sinuses of the dura mater within the cranial cavity.

END OF PAPER: SECTION B