



ROYAL AUSTRALASIAN COLLEGE
OF
DENTAL SURGEONS
INCORPORATED
ABN 97 343 369 579

**PRIMARY EXAMINATION IN
ANATOMY**

Monday 27 November 2006

Time allowed: Two hours

INSTRUCTIONS TO CANDIDATES:

PLEASE ANSWER SECTIONS A & B in SEPARATE BOOKS

The complete examination in Anatomy is in two parts:

This paper is worth 75% of the final mark;

The viva is worth 25% of the final mark.

THIS EXAMINATION PAPER IS SET IN **TWO** PARTS.
ANSWER **ANY TWO** QUESTIONS FROM SECTION **A**,
AND **ANY EIGHT** QUESTIONS FROM SECTION **B**.
BOTH SECTIONS ARE COMPULSORY

SECTION A

Each of the two essays is worth 25% of the final mark for Anatomy.

1. Describe, in detail, how the maxillary and mandibular teeth receive their arterial blood supply; from the carotid system to the vessels which enter the pulps. Include the detailed course of the main supply arteries in your answer.
2. Describe the temporo-mandibular joint, the movements which occur there, and the muscles which cause these movements.
3. Clinical scenario: You extract a lower right third molar and the next day the patient complains of numbness of the tongue on that side. Explain the possible causes of the problem with particular emphasis on the detailed anatomy of the structures involved.
4. Write an essay on the hypoglossal nerve, including: its nucleus in the brain stem; intra-cranial and extra-cranial course; and supply distribution, as well as its communications with the cervical spinal nerves.

***** End of Section A *****



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written paper continued

PLEASE WRITE THIS SECTION IN A SEPARATE BOOK

SECTION B

This section is worth 25% of the final mark for Anatomy. Each question (a - j) is worth 3% of the final mark for Anatomy.

Answer **ANY 8** of the following **10** questions briefly:

- a. Which muscles move the eyeball, and in what direction?
- b. What are the distributions of the postganglionic fibres of the pterygopalatine (or sphenopalatine) parasympathetic ganglion?
- c. Name the structures which pass through the foramen magnum?
- d. Describe the lymph nodes which receive lymph from the tongue?
- e. Which structures are supplied by the cranial accessory nerve?
- f. List the venous tributaries of the internal jugular vein.
- g. Which structures pass through, or alongside the cavernous venous sinus?
- h. Draw a simple sketch of the stylohyoid muscle to show the structures which lie within 1cm of the muscle.
- i. Describe the superior laryngeal nerve, and its regions of supply.
- j. Which structures are supplied by the auriculo-temporal nerve?

This is the last page of this examination paper