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

PRIMARY EXAMINATION IN

HISTOLOGY

Tuesday 28 November 2006

Time allowed: Two hours

INSTRUCTIONS TO CANDIDATES:

The complete examination in Histology 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 SIX** QUESTIONS FROM SECTION **B.**
BOTH SECTIONS ARE COMPULSORY

SECTION A

Write essays on **TWO** of the following questions.

Each of the **TWO** essays you are required to attempt is worth 25% of the final mark in Histology.

1. The relationship between dentine and pulp plays a vital role in tooth formation and integrity. Discuss this statement.

2. The periodontal complex (including bone, periodontal ligament and cementum) is vital to clinical dentistry. Describe the structure and function of each component and the way in which they interact.

3. Describe the detailed microanatomy of the enamel. In your description include details on how this microanatomy influences the practice of clinical dentistry.

4. Give a detailed account of epithelial surfaces in the mouth and the relationship of their structure to function.

~~ END OF SECTION A ~~

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written paper continued

SECTION B

This section is worth 25% of the final mark for Histology.

5. Answer any **SIX** of the following 8 questions (each is of equal value).

   (a) Write short notes on the structure, role and function of mitochondria.

   (b) Describe the histology of dentine.

   (c) Relate the histological and functional characteristics of an ameloblast to its function.

   (d) Describe the bell stage of tooth development.

   (e) Write brief notes on the histology of the parotid salivary gland.

   (f) Describe histological changes you would expect in a healing tooth socket following extraction.

   (g) Describe the histological similarities and differences between fibroblasts and odontoblasts.

   (h) Compare the histology of the dorsal surface of the tongue with the mucosal lining of the cheek.

This is the end of this paper