



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

PRIMARY EXAMINATION IN
HISTOLOGY

Tuesday 27th November 2007

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.

Attempt any **TWO** questions from **Section A**
Attempt any **SIX** questions from **Section B**

SECTION A

Each of the **TWO** essays is worth 25% of the final mark in Histology.

1. The relationship between enamel and dentine plays a vital role in tooth formation and integrity. Discuss this statement.
2. The periodontal ligament and cementum are key structures in periodontal disease. Describe their structure, function of each and the way in which they interact.
3. Give a detailed account of the development of a tooth.
4. Describe the histological anatomy of bone. Include in your answer an explanation of bone healing after tooth extraction.

-----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, mRNA including its role in protein synthesis.
 - (b) Describe the histology of dentine.
 - (c) Relate the histological and functional characteristics of the dorsal surface of the tongue.
 - (d) Describe in detail the histology of the gingiva.
 - (e) Write brief notes on the histology of the parotid salivary gland.
 - (f) Account for the risks associated with light microscopy.
 - (g) Describe the histological feature of odontoblasts both in their synthetic and resting phases.
 - (h) Cell membrane is a critical interface between the intracellular and extracellular environments. Discuss this statement.

~ END OF PAPER ~