

PRIMARY EXAMINATION

**HISTOLOGY**

Thursday 4 December 2003

Time allowed: Two hours

---

INSTRUCTIONS TO CANDIDATES

The complete examination in Histology is in two parts:

This paper which is worth 75% of the final mark;

The viva which is worth 25% of the final mark.

---

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

1. Describe in detail the structure and development of the Dentine. In your answer discuss the response of dentine to trauma.
2. Give a detailed account of the histology of the salivary glands, include in your answer the histological differences between the major salivary glands.
3. Describe the histology of the periodontal ligament and the impact of this junction on clinical dentistry. Include in your answer a description of the development of the periodontal ligament.
4. Discuss bone, bone formation and bone repair from a histological perspective.

Page 1 of 2.

TURN THE PAGE OVER FOR SECTION B.

**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 cellular processes associated with protein formation.
  - (b) Describe the histology of the pulp and its response to insult.
  - (c) Compare and contrast the histological features of periodontal ligament and dental pulp.
  - (d) Describe the development of a tooth up-to the bell stage.
  - (e) Write brief notes on the histology of the palate.
  - (f) Describe the key histological features of enamel and relate them to dental practice.
  - (g) Describe the histological difference between the mucous membrane of the cheek and the dorsal surface of the tongue.
  - (h) Write brief notes on the formation of hard substance of enamel.

Page 2 of 2.

**End of paper**