

PRIMARY EXAMINATION

HISTOLOGY

Wednesday 1 December 2004

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. Enamel is a complex structure that is adapted to the role it plays. Discuss this statement with particular reference to its development and key mature structural elements.
2. Give a detailed account of the histological difference between the different mucosa found in the mouth.
3. Describe the different junctions between the hard tissues of the teeth and the impact these junctions have on clinical dentistry. Include in your answer a description of the development of the junctions.
4. Discuss saliva and salivary glands from both a clinical and histological perspective.

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 periodontal ligament.
- (c) Relate the histological and functional characteristics of odontoblasts to their function.
- (d) Describe the bell stage of tooth development.
- (e) Write brief notes on the histology of the bone.
- (f) Describe histological changes of dentine you would expect with trauma to a tooth.
- (g) Describe the histological similarities and differences between the two types of cementum.
- (h) Write brief notes on the histology of the dorsal surface of the tongue.

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End of paper