



The Royal College of Pathologists

Pathology: the science behind the cure

Part 1 examination

Oral Pathology: First paper

'General' Pathology

Tuesday 23rd September 2008

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question). each question to be started on a new page.

1. Write short notes on:
 - a. The Human Tissue Act
 - b. Cytogenetics

2. What is 'granulomatous' inflammation? Briefly discuss its possible presentations and differential diagnosis in head & neck soft tissues.

3. Write short notes on lesions caused by the Human Papilloma Virus.

4. Describe the histopathological features of a reactive lymph node.

5. Detail the staging categorisation of primary tumours (T) of the lip and oral cavity.

Please turn over for SAQs 6-8 and Essays 1-3

6. Describe the techniques available for the identification of neuroendocrine tumours.

7. Write short notes on:
 - a. Giant cells
 - b. Pericytic stem cells

8. Briefly describe the distribution and histopathology of Kaposi sarcoma in the head and neck region.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); each question to be started on a new page.

1. Discuss the use of immunohistochemistry in the diagnosis of an undifferentiated malignant tumour.

2. Give a brief account of tumours and tumour-like lesions of the blood vessels.

3. Describe and comment on the processes involved in quality management of a diagnostic histopathology service.



The Royal College of Pathologists

Pathology: the science behind the cure

Part 1 examination

Oral Pathology: Second paper

Oral & Maxillofacial Pathology

Tuesday 23rd September 2008

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question); each question to be started on a new page.

1. Outline the histopathological features of sinonasal polyps.
2. Write short notes on:
 - a. Hyalinising clear cell carcinoma
 - b. Focal lymphocytic sialoadenitis in labial salivary glands
3. Briefly discuss the developmental disorders that may affect the temporomandibular joint and outline their possible causes.
4. Write short notes on juvenile ossifying fibroma.
5. Describe the clinico-pathological features seen in dentinal dysplasia.

Please turn over for SAQs 6-8 and Essays 1-3

6. Briefly discuss granular cell lesions that may present in the oral soft tissues.

7. Write short notes on:
 - a. Odontogenic carcinomas
 - b. Sclerosing polycystic adenosis

8. Compare and contrast verrucous leukoplakia and verrucous carcinoma.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); each question to be started on a new page.

1. Give an account of malignant salivary gland tumours; where appropriate comment on differential diagnosis.

2. Discuss amyloidosis of the oral cavity, pharynx and larynx.

3. Give an account of odontogenic lesions which may contain ghost cells.



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Oral Pathology: First paper

'General' Pathology

Tuesday 18th March 2008

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.
Each question to be answered in a separate booklet.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question). Each question to be answered in a separate booklet.

9. Outline the methods available for the histological assessment of bone.
10. Briefly discuss the relevance of EGF receptor expression in squamous cell carcinoma of the head and neck.
11. Write short notes on:
 - a. PCR (polymerase chain reaction)
 - b. Applications and limitations of telepathology
12. Write short notes on:
 - a. Pseudoepitheliomatous hyperplasia
 - b. DNA ploidy analysis
13. Classify melanocytic naevi and write short notes on the typical histopathological features associated with two distinct examples from those in your list.

Please turn over for SAQs 6-8 and Essays 1-3

14. Describe the histopathology of the branchial cyst. What are the potential pitfalls of making the diagnosis.
15. Write short notes on nasopharyngeal carcinoma.
16. Describe the immunocytochemical stains that may be used to help identify the origin of a metastatic carcinoma presenting in the head and neck.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); Each question to be answered in a separate booklet.

4. Discuss the relationship between stem cells and cancer.
5. Give an account of myofibroblastic lesions of the soft tissues.
6. Discuss the differential diagnosis of small round cell tumours in the head and neck.



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Oral Pathology: Second paper

Oral & Maxillofacial Pathology

Tuesday 18th March 2008

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Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question); each question to be answered in a separate booklet.

9. Summarise possible pitfalls in the histopathological diagnosis of:
 - a. Ameloblastoma
 - b. Fibrous dysplasia
10. Write short notes on aneurysmal bone cyst arising in the craniofacial skeleton.
11. Write short notes on the significance of clear cells in lesions of the head and neck.
12. Write short notes on regional odontodysplasia.
13. Describe the histopathological features and differential diagnosis of hairy leukoplakia.

Please turn over for SAQs 6-8 and Essays 1-3

14. Give a brief account of the clinicopathological features of intra-oral mucocoeles.
15. Write short notes on the differential diagnosis of the 'mixed' odontogenic tumours.
16. Give the causes and histopathological features of osteonecrosis of the jaws.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); each question to be answered in a separate booklet.

4. Give an account of lichenoid inflammation as it may affect the oral mucosa. Indicate the range of lesions showing this feature and discuss the differential diagnosis.
5. Outline the pathological characteristics of malignant tumours of bone and cartilage arising in the jaw bones.
6. Give an account of the pathogenesis and classification of odontogenic cysts of inflammatory origin.



The Royal College of Pathologists

Part 1 examination

**Oral Pathology: First paper
'General' Pathology**

Tuesday 25 September 2007

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.
Each question to be answered in a separate booklet.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question). Each question to be answered in a separate booklet.

1. Outline the histopathology of bone lesions resulting from vitamin D deficiency.
2. Write short notes on each of the following:
 - a) The use of tissue microarrays in histopathology
 - b) The advantages and disadvantages of automation in the histopathology laboratory
3. Write short notes on mucosal malignant melanoma.
4. Write short notes on the diagnostic applications of the following special stains:
 - a) Alcian blue
 - b) Keratins 7 and 20

Please turn over for SAQs 5-8 and Essays 1-3

5. Give an account of oncocytosis.

6. Write short notes on the following:
 - a) Cam 5.2
 - b) EBV and neoplasia
7. Write a sentence or two about the key areas covered by the CPA scheme for accreditation of histopathology laboratories.
8. Write short notes on the histological variants associated with basal cell carcinomas; include mention of prognostic implications where relevant.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); Each question to be answered in a separate booklet.

1. Give an account of bone forming lesions that may affect the jaws; highlight key differences between lesions arising in the jaw bones and those in the long bones.
2. Discuss the concept of 'Quality Assurance' in relation to the operation of a diagnostic histopathology laboratory.
3. Give an account of spindle cell lesions that may affect the head and neck region; include in your answer your approach to diagnosis including relevant immunohistochemical and cytogenetic tests that may be useful.



The Royal College of Pathologists

Part 1 examination

**Oral Pathology: Second paper
Oral & Maxillofacial Pathology**

Tuesday 25 September 2007

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.
Each question to be answered in a separate booklet.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question); each question to be answered in a separate booklet.

1. Describe the key histopathological features of Wegener's granulomatosis.
2. Outline the lymphatic drainage of the oral (anterior two thirds) tongue and explain its potential importance to both surgeon and pathologist.
3. Write short notes on the glandular (sialo-odontogenic) cyst.
4. Outline the criteria used to distinguish between chondroma and chondrosarcoma of the jaws.
5. Write short notes on primary intra-osseous squamous cell carcinoma of the jaws.
6. Discuss the histological grading of adenoid cystic carcinoma.

Please turn over for SAQs 7-8 and Essays 1-3

7. Write short notes on lesions of the jaws that are characterised by the presence of 'ghost' cells.
8. Describe the typical histopathological appearances seen in the teeth in:
 - a. Hypophosphatemia (vitamin D resistant rickets)
 - b. Dentine dysplasia

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); each question to be answered in a separate booklet.

1. Discuss the differential diagnosis of odontogenic tumours of epithelial origin.
2. Discuss the histopathology and differential diagnosis of polymorphous low grade adenocarcinoma of salivary glands.
3. Discuss the differential diagnosis and investigation of non-neoplastic lesions of cervical lymph nodes.



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Part 1 examination

**Oral Pathology: First paper
'General' Pathology**

Tuesday 27 March 2007

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question). Each question to be answered in a separate booklet.

9. Write short notes on the following special stains:
 - a) PAS with and without diastase pre-digestion
 - b) HMB45

10. Write short notes on each of the following:
 - a) Apoptosis
 - b) Pitfalls of the TNM staging system

11. Describe and discuss sentinel node biopsy.

12. Write short notes on MALT lymphomas.

Please turn over for SAQs 5-8 and Essays 1-3

13. Write short notes on the following in the context of a cellular pathology laboratory:

- a) Antigen retrieval
 - b) Limitations of frozen sections
14. Write short notes on the value of the following as adjuncts to microscopic diagnosis:
- a) Clinical radiographs
 - b) Photography at 'cut-up'
15. List and describe briefly the key components in the minimum dataset for histopathological reporting of basal cell carcinoma.
16. State the advantages and disadvantages associated with Fine Needle Aspiration cytology in the diagnosis of head and neck pathology.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); Each question to be answered in a separate booklet.

- 4. Discuss the scope of CPA (Clinical Pathology Accreditation) medical laboratory accreditation.
- 5. Give an account of the histological variants of squamous cell carcinoma.
- 6. Give an account of peripheral nerve sheath tumours as they may present in the head & neck region; your answer should include comment on the potential diagnostic pitfalls.



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Part 1 examination

**Oral Pathology: Second paper
Oral & Maxillofacial Pathology**

Tuesday 27 March 2007

*Candidates must answer SIX Short Answer Questions **and** TWO essay questions ONLY.*

Time allowed: 3 hours

Short Answer Questions:

Candidates must attempt six questions (nominally 15 minutes per question); each question to be answered in a separate booklet.

9. Compare the immunopathology of mucous membrane pemphigoid and pemphigus.
10. Give a classification of fibro-osseous lesions of the jaw bones and explain what steps must be taken to determine a definitive diagnosis for this group of lesions.
11. Describe the key microscopic features of Kaposi sarcoma presenting in the oral mucosa.
12. Describe the oral lesions that may show pseudo-epitheliomatous hyperplasia.
13. Write short notes on Langerhan cell histiocytosis.
14. Discuss the histological grading of mucoepidermoid carcinoma.

Please turn over for SAQs 7-8 and Essays 1-3

15. Write short notes on the histopathological features associated with inherited defects in dentine structure.

16. Give a list of 'pigmented' lesions of the oral mucosa and discuss briefly their differential diagnosis.

Essay Questions:

Candidates must attempt two questions (nominally 45 minutes per question); each question to be answered in a separate booklet.

4. Give an account of prognostic factors that may determine the outcome of salivary gland tumours.
5. Discuss the histological diagnosis and grading of oral squamous epithelial dysplasia.
6. Give an account of oral and maxillofacial lesions in which 'granulomatous' inflammation is a feature and discuss their differential diagnosis.



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Part 1 examination

Oral Pathology: First paper

Tuesday 19 September 2006

Candidates must answer FOUR of the following questions ONLY

Time allowed: 3 hours

- 1 What measures are appropriate for gauging the quality of a diagnostic histopathology service?
- 2 Discuss the identification of infectious agents in routine tissue biopsies.
- 3 Discuss the differential diagnosis of fibro-osseous lesions of the cranio-facial skeleton.
- 4 Discuss microarray and proteomic approaches to understanding oral cancer.
- 5 Write short notes on each of the following:
 - a) Preparation methods for hard tissue histology
 - b) Standard Operating Protocols
 - c) Cytokeratin immunohistochemistry.



The Royal College of Pathologists

Part 1 examination

Oral Pathology: Second paper

Tuesday 19 September 2006

Candidates must answer FOUR of the following questions ONLY

Time allowed: 3 hours

- 1 Describe the histological diagnosis and grading of oral squamous epithelial dysplasia.
- 2 Discuss histopathological assessment and staging of neck dissections for oral / oropharyngeal squamous cell carcinoma.
- 3 Outline the histopathology, prognosis and predictive factors of oral mucosal malignant melanoma.
- 4 Discuss haematolymphoid neoplasia and precursor lesions that may affect the salivary glands.
- 5 Write short notes on each of the following:
 - a) Lymphoepithelial carcinoma
 - b) Histological variants of unicystic ameloblastoma
 - c) Congenital epulis.



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 14 March 2006

Oral Pathology

First Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

- 1 Discuss quality assurance in relation to diagnostic histopathology.
- 2 Discuss the differential diagnosis of spindle cell tumours of the orofacial region.
- 3 Give an account of neuroendocrine tumours that may be encountered in the head and neck, mentioning the methods for identification of neuroendocrine cells.
- 4 Discuss the use of immunofluorescence techniques for the diagnosis of mucocutaneous disorders.
- 5 Write short notes on each of the following:
 - a) Histopathological features of Kaposi sarcoma
 - b) Ossifying fibroma
 - c) Langerhan cell histiocytosis



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 14 March 2006

Oral Pathology

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

- 1 Discuss the histopathological variants of squamous cell carcinoma that may occur within the mouth and oropharynx.
- 2 Outline the non-neoplastic pathological conditions that may affect the temporomandibular joint including brief reference to their histological features.
- 3 Describe the odontogenic lesions and dental anomalies characterised by formation of dysplastic dentine.
- 4 Discuss malignancy arising in pleomorphic salivary adenoma.
- 5 Write short notes on each of the following:
 - a) Clear cell odontogenic carcinoma
 - b) Malignant change in lichen planus
 - c) Oral melanocytic naevi