



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.



The Royal College of Pathologists

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.



The Royal College of Pathologists

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



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 20 September 2005

Oral Pathology

First Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. What microscopic features in an H&E stained oral mucosal biopsy would make you suspect the presence of amyloid? Discuss the further tests you might order to determine if the suspect material is amyloid and what type it may be.
2. Discuss tumours of blood and lymphatic vessels.
3. Discuss the disorder of fibrous dysplasia. Mention the various types, the underlying gene defect and complications that can exist with this disorder. What other conditions would you consider in a histological differential diagnosis? Briefly mention exclusion criteria or further tests that would be helpful in making your diagnosis.
4. Give an account of the roles of the pathologist in cancer centres and multidisciplinary teams.

Please turn over for Question 5

5. Write short notes on EACH of the following:

- a) Microassays
- b) S100 protein
- c) Metalloproteinases



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 20 September 2005

Oral Pathology

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Discuss the differential diagnosis of odontogenic tumours which may contain enamel, dentine or dentine-like material.
2. Give an account of mucoepidermoid carcinomas of salivary glands.
3. Critically discuss the role of histopathology in the diagnosis of developmental disorders of teeth.
4. Discuss the differential diagnosis of non-neoplastic lesions of cervical lymph nodes.
5. Write short notes on EACH of the following:
 - a) lymphoepithelial carcinoma
 - b) DNA ploidy in oral mucosa
 - c) oral submucous fibrosis



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 24 September 2002

ORAL PATHOLOGY

First Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Discuss apoptosis in disease.
2. Give an account of myofibroblastic tumours.
3. Discuss current UK requirements in relation to research on retained tissues in histopathology.
4. Discuss cytogenetics in diagnostic pathology.
5. Write short notes on EACH of the following:
 - (i) atypical fibroxanthoma,
 - (ii) telomerase,
 - (iii) osteosarcoma in older adults.



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

Tuesday 24 September 2002

ORAL PATHOLOGY

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Give an account of the immunopathology of vesiculo-bullous lesions of oral mucosa.
2. Discuss the differential diagnosis of polymorphous low grade adenocarcinoma of salivary glands.
3. Discuss developmental abnormalities of dentine which involve multiple teeth.
4. Write short notes on EACH of the following:
 - (i) lateral periodontal cysts,
 - (ii) cemento-osseous dysplasias,
 - (iii) ghost cells.
5. Write short notes on EACH of the following lesions of oral mucosa:
 - (i) melanoma in situ,
 - (ii) verruciform xanthoma,
 - (iii) epithelioma cuniculatum.



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

March 2002

ORAL PATHOLOGY

First Paper

Candidates must answer FOUR questions ONLY

Time allowed – THREE HOURS

1. Discuss the significance of the herpes viruses in diagnostic histopathology.
2. Discuss clinical audit in histopathology.
3. Give a general account of osteosarcoma.
4. Discuss type IV hypersensitivity with examples of diseases where this is an important mechanism.
5. Write short notes on:
 - (a) pseudoepitheliomatous hyperplasia
 - (b) basaloid squamous cell carcinoma
 - (c) spindle cell lipoma
 - (d) papillary endothelial hyperplasia.



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

March 2002

ORAL PATHOLOGY

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed – THREE HOURS

1. Give an account of disorders of melanocytes in the oral mucosa.
2. Discuss the diagnostic problems posed by infiltration of salivary glands by lymphoid cells.
3. Write short notes on:
 - (a) Langerhans cell histiocytosis
 - (b) aneurysmal bone cyst
 - (c) osteoarthritis of the temporomandibular joint
 - (d) cemento-ossifying fibroma
4. Give an account of the calcifying odontogenic cyst.
5. Discuss the statement "Histological assessment of oral epithelial dysplasia is unsatisfactory and should be replaced by newer techniques for predicting prognosis".



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

March 2001

ORAL PATHOLOGY

First Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Discuss the role of External Quality Assessment schemes in histopathology.
2. Write short notes on :
 - (i) the role of prions in human disease
 - (ii) the diagnostic use of cytokeratin subtypes
 - (iii) DNA repair genes.
3. Give an account of the differential diagnosis of soft tissue sarcomas.
4. Discuss local spread of malignant neoplasms.
5. Discuss the microscopic features of each of the following:-
 - (i) granular cell tumour
 - (ii) juvenile angiofibroma
 - (iii) Wegener's granulomatosis
 - (iv) temporal arteritis.



THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

March 2001

ORAL PATHOLOGY

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Give an account of developmental abnormalities of dentine.
2. Discuss non-neoplastic lesions of salivary glands.
3. Give a classification of Candidal infections of oral mucosa and discuss the role of the histopathologist in the diagnosis of such infections.
4. Discuss the microscopic subtypes of carcinoma of oral epithelium.
5. Give an account of inflammatory lesions of the jaw bones.

THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

September 2000

ORAL PATHOLOGY

First Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Give an account of peripheral nerve tumours.
2. Discuss p53 in the context of squamous cell carcinoma.
3. Discuss the demonstration of bacteria and viruses in histopathological material.
4. Discuss the role of macrophages in chronic inflammation.
5. Write short notes on:
 - (i) MALT lymphoma
 - (ii) Wegener's granulomatosis
 - (iii) Eosinophilic granuloma.

THE ROYAL COLLEGE OF PATHOLOGISTS

Part 1 Examination

September 2000

ORAL PATHOLOGY

Second Paper

Candidates must answer FOUR questions ONLY

Time allowed - THREE HOURS

1. Discuss clear cells in salivary gland neoplasms.
2. “The odontogenic keratocyst should really be classified as a neoplasm.” Discuss this statement.
3. Write a critical essay on the difficulties of histopathological interpretation of oral epithelial dysplasia.
4. Discuss the immunopathology of oral mucosal inflammatory diseases.
5. Give an account of neoplastic and dysplastic lesions of cementum.