



The Royal Australian and New Zealand College of Ophthalmologists

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ADVANCED PATHOLOGY EXAMINATIONS

SUMMER 2007

Thursday, 25 January 2007

**Candidates must attempt EVERY question. All Questions carry equal marks.
DURATION OF PAPER: 2.5 HOURS**

Question 1

An enucleation specimen for a suspected posterior pole choroidal malignant melanoma is submitted to the histopathology laboratory for examination. List the parameters in the macroscopic and microscopic reports that the pathologist should comment on.

Question 2

Discuss the pathology of ocular MALT lymphoma.

Question 3

Describe the primary and secondary changes seen in congenital glaucoma.

Question 4

Discuss the mechanism of wound healing after trabeculectomy and how mitomycin C affects this.

Question 5

Discuss the pathology of sebaceous carcinoma.

Question 6

- Describe the specimens you would submit for suspected infectious keratitis
- Your lab result comes back saying "Gram stain: no organisms seen. Culture: a light growth of Staph epidermidis." How would you interpret this?

Question 7

Matrix Metalloproteinases (MMP)

- Discuss the main types of MMP's.
- Give clinical examples where MMP's are relevant.

Question 8

Discuss the pathophysiology of the key clinical signs of Thyroid Eye Disease



Question 9

- a) Discuss how histochemical stains are used in eye pathology
- b) Discuss the principles behind immunohistochemistry and illustrate with examples used in Ophthalmology.

Question 10

Discuss the pathology of multiple sclerosis and relate how this causes the clinical signs and symptoms in Ophthalmology.

Question 11

For both trachoma and onchocerciasis

- a) Discuss the microbiology
- b) Discuss the pathophysiological basis of the visual impairment

Question 12

For giant cell arteritis

- a) Describe the histological features
- b) Describe the immunology of the disease
- c) Relate the pathophysiology to the clinical signs and symptoms

END OF PAPER