



**RANZCO Advanced Pathology Examination  
Semester 2/2008 Written Examination DOE: 11/7/08.  
Duration: 2.5 hrs. Total 12 questions**

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**Question 1:** Briefly discuss the pathology of primary angle closure glaucoma under the following headings: epidemiology; mechanisms of angle disclosure.

**Question 2:** Discuss the genetics of Age Related Macula Degeneration (ARMD)

**Question 3:** List the systematic diseases associated with dry eye. For one of these, discuss the mechanism by which it causes dry eye.

**Question 4:** For infectious keratitis:

- (a) List the five most common causative bacterial organisms.
- (b) List factors that increase the risk of bacterial keratitis for contact lens wearers.
- (c) List the three most common causative fungal organisms.
- (d) List the factors that increase the risk of acquiring fungal keratitis.

**Question 5:** You suspect a patient has idiopathic orbital inflammatory syndrome (pseudotumour)

- (a) What laboratory investigations would you perform?
- (b) Describe the range of histopathological changes you might see on a biopsy.

**Question 6:** Discuss the pathology of optic neuritis under the following headings: epidemiology, classification, histopathological changes.

**Question 7:** A 2 year-old boy was referred for evaluation of an acute-onset esotropia.

- (a) What conditions can cause acute esotropia in a child?
- (b) Discuss briefly the pathology of one of these.

**Question 8:** A one month old boy presents with congenital glaucoma.

- (a) List the conditions that can present with large corneas.
- (b) What are the microscopic (ophthalmoscopic/ gonioscopic) features that support the diagnosis of congenital glaucoma?
- (c) Comment on the genetics of congenital glaucoma.

**Question 9:** Classify cataracts by their location in the lens, and, for each type, describe the histological changes seen in the lens.

**Question 10:** List **TEN** ocular complications of AIDS. Describe the histopathological changes in **THREE** of these.

**Question 11:** For retinitis pigmentosa, describe the pathological mechanism of the disease, the macroscopic (ophthalmoscopic) and histological changes.

**Question 12:** Discuss the possible microscopic appearances of a pigmented raised lesion on the lower lid of a 52 year old patient.