

Australian and New Zealand College of
Veterinary Scientists

Veterinary Dermatology
Sample Multiple Choice Questions

Paper 1

Answer all multiple choice questions in this section

Each question is worth one (1) mark. There is no negative marking.

1. The mechanism of action of rifampicin's antimicrobial activity involves the inhibition of which of the following?
 - a. DNA gyrase
 - b. Folic acid synthesis
 - c. The 50S ribosomal subunit
 - d. DNA-dependent RNA polymerase

2. Which cytokine plays a key role in the development and release of eosinophils from the bone marrow?
 - a. IL-4
 - b. IL-5
 - c. IL-13
 - d. IL-31

3. Which mechanism is responsible for hearing loss that can be associated with compounded topical 1% amikacin otic medication in dogs?
 - a. Occlusion of the ear canal by residual medication leads to conductive hearing loss
 - b. Overproduction of reactive oxygen species leads to oxidative stress and apoptosis of sensory cells
 - c. Inhibition of prostaglandin-forming cyclooxygenase enzymes results in vasoconstriction
 - d. Targeting ion-transport mechanisms in the epithelia of the internal ear leads to shifts in the endocochlear potential

Paper 2

Answer all multiple choice questions in this section

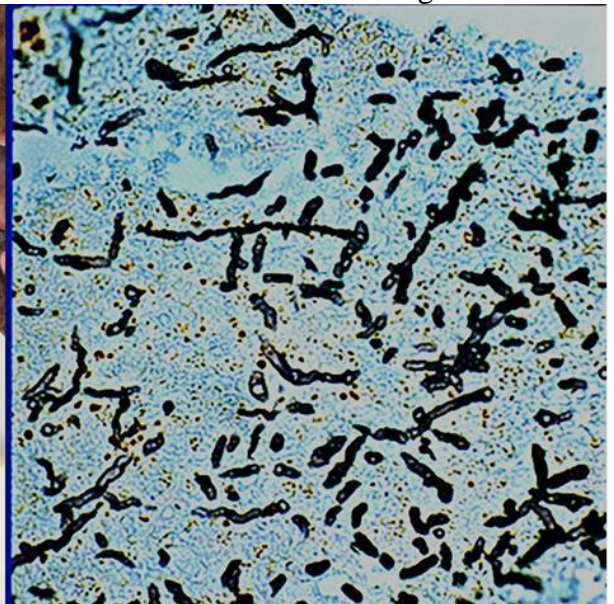
Each question is worth one (1) mark. There is no negative marking.

1. A four-month-old intact female golden retriever is presented for moderate scaling affecting the trunk and limbs. Histopathologic evaluation of a skin biopsy describes “diffuse lamellar orthokeratotic hyperkeratosis in the absence of epidermal hyperplasia and dermal inflammation.”
Which gene mutation is associated with this condition?
 - a. TGM1
 - b. KRT10
 - c. NIPAL4
 - d. PNPLA1
2. This lesion (Image A) was present on the ventral abdomen of a 14-year-old Quarter Horse mare. A representative histologic section of the lesion is shown (Image B).

Image A



Image B



Which special stain was used to identify the pathogen?

- a. Periodic acid-Schiff (PAS)
- b. Voerhoeff-Van Gieson
- c. Mayer's mucicarmine
- d. Gomori methenamine silver (GMS)