Examination Period 3: 2016/17

ANW204617N

Module Title: Equine Sports Injuries and Therapy
Level: Five
Time Allowed: Two hours

Instructions to students:

- Enter your student number not your name on all answer books.
- Read the questions carefully.
- Answer all questions.
- Section A carries 50 marks.
- Section B carries 20 marks.
- Begin each question on a separate page; label each page clearly with the number of the question you are answering.
- Neither books nor notes may be taken into the examination room.

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Section A

Answer all questions.

1. A study by Pinchbeck et al., in 2004 stated that 30% of all musculoskeletal injuries sustained during racing are fractures with 91% proving to be fatal.

   Evaluate the above statement in relation to the structural attributes of the horse’s skeletal system with regards to the effects of training, remodelling and recovery.

   (20 marks)

2. Analyse the first, second and third intention wound repair.

   (10 marks)

3. Whilst out hunting, a horse jumps a fence awkwardly causing a wooden fence post to impale the chest. The horse pulled away so there is no foreign object in the wound cavity.

   Analyse the phases of wound healing that would occur in the above scenario and include a review of the veterinary intervention that would be required at each stage of the healing process

   (20 marks)

Total: 50 marks

End of Section A
Section B follows overleaf
Section B

Answer all questions

4. Read the scenario below and then discuss:

A 16.3hh TB mare (8 years old) competing regularly at Intermediate level eventing, presented with low level lameness in right fore; this was evident when trotting up in a straight line but more prominent on a circle.

After investigation (nerve block and ultrasound scan) she was diagnosed with a moderate core lesion in the proximal section of the superficial digital flexor tendon.

a. Examine the pathogenesis of a tendon injury at a cellular level.  
   (10 marks)

b. Analyse a time frame for healing to occur; consider potential factors that may affect the healing process for this injury.
   (10 marks)

Total: 20 marks