

STUDENT NUMBER           Letter

# VCE VET EQUINE STUDIES

## Written examination

Thursday 10 November 2022

Reading time: 9.00 am to 9.15 am (15 minutes)

Writing time: 9.15 am to 10.45 am (1 hour 30 minutes)

### QUESTION AND ANSWER BOOK

#### Structure of book

<i>Section</i>	<i>Number of questions</i>	<i>Number of questions to be answered</i>	<i>Number of marks</i>
A	20	20	20
B	18	18	80
			Total 100

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners, rulers and one scientific calculator.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or correction fluid/tape.

#### Materials supplied

- Question and answer book of 15 pages
- Answer sheet for multiple-choice questions

#### Instructions

- Write your **student number** in the space provided above on this page.
- Check that your **name** and **student number** as printed on your answer sheet for multiple-choice questions are correct, **and** sign your name in the space provided to verify this.
- All written responses must be in English.

#### At the end of the examination

- Place the answer sheet for multiple-choice questions inside the front cover of this book.

**Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.**

**SECTION A – Multiple-choice questions****Instructions for Section A**

Answer **all** questions in pencil on the answer sheet provided for multiple-choice questions.

Choose the response that is **correct** or that **best answers** the question.

A correct answer scores 1; an incorrect answer scores 0.

Marks will **not** be deducted for incorrect answers.

No marks will be given if more than one answer is completed for any question.

**Question 1**

One of the main functions of the equine muscular system is

- A. oxygen transportation.
- B. hormone production.
- C. homeostasis.
- D. joint support.

**Question 2**

A horse has been moved to a new property.

How long should the horse be kept in isolation before it is allowed to mix with other horses?

- A. not at all, provided the horse looks healthy
- B. five days
- C. a minimum of one week
- D. a minimum of two weeks

**Question 3**

A vet listens to a horse's heart for 15 seconds. During this period the horse's heart beats seven times.

What would be this horse's heart rate per minute?

- A. 11 bpm
- B. 28 bpm
- C. 42 bpm
- D. 49 bpm

**Question 4**

Which of the following features would be evident in a horse described as a 'cob'?

- A. a stout build, strong bone in leg, larger joints and a short length of neck
- B. a finer build, long length of neck and a pretty head
- C. a medium build, over 15hh and a Roman nose
- D. heavy set, under 14hh and short legs

**Question 5**

'Winging in' is a movement in which the foot moves

- A. away from and then towards the median plane at the start and end of a stride.
- B. towards and then away from the median plane at the start and end of a stride.
- C. away from the median plane at the end of a stride.
- D. towards the median plane at the start of a stride.

**Question 6**

Which one of the following is most likely to cause strain on the lower leg tendons and the navicular bone?

- A. low, under-run heels
- B. contracted heels
- C. flat, large feet
- D. uneven heels

**Question 7**

One illness of the endocrine system in horses is Cushing's disease.

What are the four most common signs of Cushing's disease?

- A. abnormal hair growth, weight loss, depression and sunken eyes
- B. abnormal hair growth, weight gain, dehydration and laminitis
- C. abnormal hair growth, laminitis, lethargy and weight gain
- D. abnormal hair growth, lethargy, weight loss and laminitis

**Question 8**

To help prevent health problems, changes to a horse's feed ration should be implemented

- A. immediately.
- B. over 1–2 days.
- C. over 3–5 days.
- D. over 7–10 days.

**Question 9**

What is the additional energy requirement from feed for a mare in late pregnancy?

- A. 50%
- B. 30%
- C. 15%
- D. 5%

**Question 10**

In which group of horses is an outbreak of strangles most likely to occur?

- A. older horses
- B. broodmares
- C. young horses
- D. foals

**Question 11**

Horses with a long back are more likely to have the movement abnormality known as

- A. plaiting.
- B. cross-firing.
- C. overreaching.
- D. speedy cutting.

**Question 12**

A stallion with only one descended testicle is commonly called a

- A. rig.
- B. freemartin.
- C. hermaphrodite.
- D. cryptorchid.

**Question 13**

An employer has described a horse as ‘tucked up’.

What does ‘tucked up’ mean?

- A. The horse is sucked in through the flank area.
- B. The horse has hocks close together.
- C. The horse has a tightly held tail.
- D. The horse has a narrow chest.

**Question 14**

Acute lameness and heat in one foot with an increased digital pulse could indicate

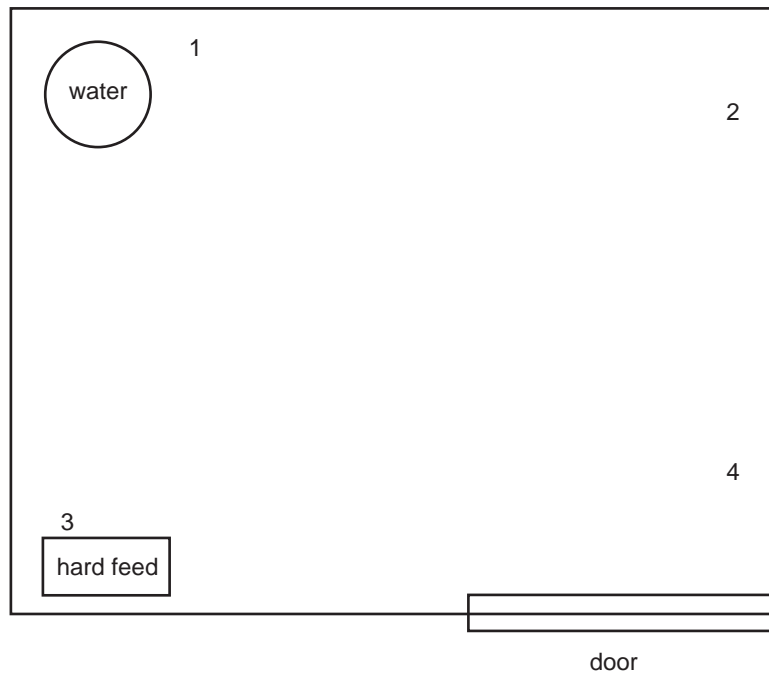
- A. navicular disease.
- B. a foot abscess.
- C. seedy toe.
- D. a splint.

**Question 15**

Analysis of a yearling’s feed ration shows an excess of minerals.

The most effective management strategy is to

- A. replace lucerne hay with grass hay.
- B. monitor the horse’s condition score.
- C. reduce the horse’s intake of grain.
- D. increase the horse’s amount of daily exercise.

**Question 16**

In the diagram of the stable above, where would be the most appropriate place to tie a hay bag?

- A. Position 1
- B. Position 2
- C. Position 3
- D. Position 4

**Question 17**

Which breed of horse is most commonly associated with the pacing gait?

- A. Arabian
- B. Welsh pony
- C. standardbred
- D. thoroughbred

**Question 18**

What would be the most effective ingredient in a worming paste to treat tapeworm in horses?

- A. fenbendazole
- B. praziquantel
- C. abamectin
- D. ivermectin

**Question 19**

What information should be recorded on a horse's vaccination certificate?

- A. the date and type of vaccination and a signature from the person administering it
- B. the date of the vaccination and a signature from the person administering it
- C. the route of administration and the name of the vaccine
- D. the date of the vaccination and the route of administration

**Question 20**

The fungus dermatophilosis causes

- A. gastric ulcers.
- B. rain scald.
- C. stringhalt.
- D. sarcoids.

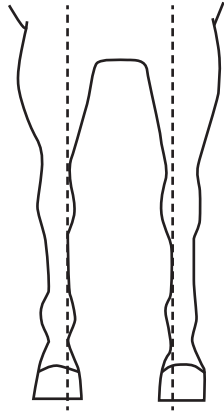
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**SECTION B**

**Instructions for Section B**

Answer **all** questions in the spaces provided.

**Question 1** (1 mark)



Name the conformation fault shown in the image above.

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**Question 2** (3 marks)

Describe how to safely take the rectal temperature of a horse.

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**Question 3** (3 marks)

Premixed feeds are commonly used by horse owners.

List **three** advantages of using a premixed feed.

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**Question 4** (1 mark)

Describe what happens when a mare experiences a prolapse after foaling.

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**Question 5** (6 marks)

Complete the table below by identifying one advantage and one disadvantage of each water source.

Water source	Advantage	Disadvantage
self-filling water trough		
dam		
bucket		

**Question 6** (3 marks)

Explain the conformation fault ‘camped behind’ and **two** impacts that it has on a horse’s movement.

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**Question 7** (3 marks)

List **three** functions of the equine nervous system.

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**Question 8** (4 marks)

For each of the horse types listed below:

- identify a desirable hind leg conformation feature
- explain why this feature is desirable for the horse type's main purpose.

Draft horse

Feature \_\_\_\_\_

Explanation \_\_\_\_\_

\_\_\_\_\_

Riding pony

Feature \_\_\_\_\_

Explanation \_\_\_\_\_

\_\_\_\_\_

**Question 9** (6 marks)

Describe two clinical signs of ringworm, and suggest two hygiene measures and two treatment methods suitable to manage this ailment.

Clinical signs

1. \_\_\_\_\_

2. \_\_\_\_\_

Hygiene measures

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

Treatment methods

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

**Question 10** (7 marks)

Mucous membrane colour and capillary refill time are indicators of a horse's health.

- a. What are the normal mucous membrane colour and capillary refill time of a horse? 2 marks

Mucous membrane colour \_\_\_\_\_

Capillary refill time \_\_\_\_\_

- b. Explain how mucous membrane colour and capillary refill time should be checked. 2 marks

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- c. What could the following values for mucous membrane colour and capillary refill time indicate about a horse's health? 3 marks

• Blue membrane colour \_\_\_\_\_

• Pale or white membrane colour \_\_\_\_\_

• Slow capillary refill time \_\_\_\_\_

**Question 11** (4 marks)

- a. Explain the difference between the movement faults 'forging' and 'scalping'. 2 marks

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- b. Identify **one** injury or soundness issue that may be associated with forging and scalping. 2 marks

Forging \_\_\_\_\_

\_\_\_\_\_

Scalping \_\_\_\_\_

\_\_\_\_\_

**Question 12** (3 marks)

Following long-distance travel to an interstate event, a horse is displaying the symptoms of lethargy, fever and a slight cough.

- a. What is the clinical name for the disease most likely affecting this horse? 1 mark

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- b. Describe one short-term and one long-term impact of this disease on the horse. 2 marks

Short-term impact \_\_\_\_\_

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Long-term impact \_\_\_\_\_

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**Question 13** (6 marks)

Hindgut acidosis is an ailment that affects performance horses.

Explain what hindgut acidosis is and describe a suitable feeding program and management practices for the following horse:

- 10-year-old, 550 kg warmblood gelding
- stabled at night and turned out into a yard during the day
- heavy workload of five to six days per week

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**Question 14** (5 marks)

Describe the life cycle of large strongyle worms.

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**Question 15** (5 marks)

Developmental orthopaedic disease (DOD) is a serious condition that affects horses.

- a.** Describe **two** clinical signs that a horse might show when presenting with DOD. 2 marks

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- b.** Which horses are most commonly affected by DOD? 1 mark

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- c.** Identify **two** feeding practices that may increase the risk of DOD occurring. 2 marks

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**Question 16** (2 marks)

Identify the difference between simple and complex carbohydrates.

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**Question 17** (10 marks)

You have arrived at the paddock to feed your horse and you notice that he does not seem like himself. The horse has a history of colic.

- a. Describe **two** clinical signs that would indicate colic. 2 marks

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- b. Other than checking the mucous membrane colour, explain **two** different health checks that would help determine if the horse has colic. 4 marks

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- c. List **two** possible indicators or causes of colic within the paddock. 2 marks

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- d. What factors would determine if veterinary attention is required? 2 marks

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