

Victorian Certificate of Education 2023

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

			Letter
STUDENT NUMBER			

VCE VET EQUINE STUDIES

Written examination

Tuesday 31 October 2023

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

Section	Number of questions	Number of questions to be answered	Number of marks
A	20	20	20
В	17	17	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

What is the main function of a horse's skin?

- A. digestion
- B. movement
- C. protective covering
- **D.** transportation of waste

Question 2

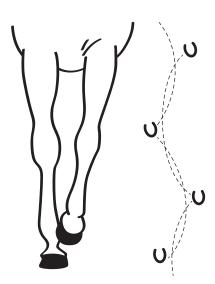
A horse has a resting heart rate of 56 bpm.

This heart rate is

- A. low.
- B. normal.
- C. high.
- **D.** dangerously high.

Question 3

The movement fault in the image below is known as



Source: adapted from PJ Huntington, *Horse Sense: The Guide to Horse Care in Australia and New Zealand*, 2nd edition, J Myers and E Owen (contributors), CSIRO Publishing, Melbourne, 2004, p. 83

- A. forging.
- B. plaiting.
- C. winging.
- **D.** stargazing.

Question 4

The most suitable feed to help manage a horse with recurrent exertional rhabdomyolysis (RER) is

- A. oats
- **B.** sweet feed.
- C. lucerne hay.
- **D.** pasture hay.

Question 5

Wobbler syndrome is most commonly detected in

- A. newborn foals.
- **B.** young growing horses.
- **C.** mature horses in full work.
- **D.** older pony breeds.

Question 6

The slope of the croup varies between breeds.

Flatter croups can be seen in which breed?

- A. Arabians
- B. Clydesdales
- C. warmbloods
- **D.** riding ponies

Question 7

A racing stable uses 7 tonnes of oats from the silo every 4 weeks.

A silo holding 28 tonnes of oats will need refilling every

- A. 4 weeks.
- **B.** 8 weeks.
- **C.** 16 weeks.
- **D.** 28 weeks.

Question 8

Why is it important to organise regular dental checks for horses?

- **A.** Horses often have cavities.
- **B.** Horses have continuously growing teeth that require rasping.
- C. The action of chewing produces flat surfaces that require rasping.
- **D.** Horses do not have deciduous teeth, so you need to manage their permanent teeth.

Question 9

What could lead to poor fertility in a mare?

- A. sarcoids
- B. urticaria
- C. cryptorchidism
- **D.** ovarian haematoma

Question 10

According to best practice, how often should a farrier provide hoof care to a ridden horse with shoes?

- **A.** every 2–3 weeks
- **B.** every 4–6 weeks
- C. every 8–10 weeks
- **D.** every 6 months

Question 11

Microbial digestion in horses takes place in the

- A. pancreas.
- B. stomach.
- C. caecum.
- D. colon.

Question 12

What are two routine vaccinations for horses?

- **A.** strangles and tetanus
- **B.** tetanus and laminitis
- **C.** strangles and laminitis
- D. rickets and pneumonia

Ouestion 13

Digestibility of energy sources is important when devising an optimal feeding plan.

A low digestibility feed ration would be more appropriate for

- A. a lactating mare.
- **B.** a breeding stallion.
- **C.** a competition horse.
- **D.** an insulin-resistant horse.

Question 14

Which one of these diseases is zoonotic?

- **A.** Hendra virus disease
- B. Cushing's disease
- C. laminitis
- D. colic

Ouestion 15

Which of the following horse breeds is associated with short, strong cannon bones, feathering, and a relatively short back?

- A. Lipizzaner
- B. Shetland
- C. stock horse
- D. Standardbred

Question 16

On average, how many kilograms of concentrate feed per day are required by a 500 kg stabled horse in heavy work with no access to pasture?

- **A.** 1 kg to 2 kg
- **B.** 3 kg to 4 kg
- **C.** 5 kg to 10 kg
- **D.** 11 kg to 15 kg

Question 17

What equine system does anaemia affect?

- A. cardiovascular
- B. reproductive
- C. respiratory
- D. skin

Question 18

A horse with gotch eye has eyes that are

- A. small.
- B. large.
- C. cloudy.
- **D.** uneven.

Question 19

Which of the following parts of a horse's body are most important for hormone production?

- A. thyroid and lungs
- B. epidermis and spleen
- C. caecum and appendix
- **D.** pituitary and pancreas

Question 20

The horse's ability to work in degrees of self-carriage and collection is known as

- A. engagement.
- B. suspension.
- C. elevation.
- **D.** swing.

SECTION B

Instri	ictions	for	Sec	tion	R
mou t	leading	IUI		uvn	L

Answer all questions in the spaces provided.

	three functions of the respiratory system.	
	estion 2 (2 marks) cribe the difference between pacing and trotting in a horse's movement.	
Que	estion 3 (6 marks) Identify three signs that indicate a horse is dehydrated.	3 marks
b.	Explain how hydration can be managed when a horse travels long distances.	3 marks

Question 4 (5 marks)

An aged gelding is kept in a muddy paddock during wintertime and fed 2 kg of pasture hay and 1 kg of whole oats once per day. This horse has a body condition score of 2.

A horse's estimated weight can be calculated from the girth and length, using the formula below: weight (kg) = girth² (cm) \times length (cm) \div 12 000

Outline appropriate changes to the current feeding plan, without changing the paddock, that
would aid the horse in gaining weight.
estion 5 (2 marks)
atify two reasons why 'narrow chested' is considered a conformation fault in ridden horses.

	estion 6 (9 marks)	
a.	What does choke refer to in a horse?	2 marks
		2 1
b.	List three causes of choke.	3 marks
c.	Outline two key signs of choke.	2 marks
	Outline two key signs of choke.	2 marks
d.	How can choke be prevented?	2 marks
0		
	estion 7 (2 marks) ng your knowledge of equine movement, explain why the leading leg in the gallop is more prone	
	njury.	

Question 8 (7 marks)

A horse housed in a paddock with other horses on a large agistment property has been diagnosed with strangles by a veterinarian.

a.	Explain how this horse and all the other horses on the property should be managed.	5 marks
		_
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b.	Identify actions that minimise the risk of strangles occurring on the property.	– 2 marks
υ.		
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Oue	stion 9 (2 marks)	
Mel	anomas are abnormalities affecting the horse's skin. One type is often seen under the tails of horses.	
	two typical appearance attributes of this type of melanoma.	
		_
		_

Qu	estion 10 (3 marks)		
a.	Define gamete production.		1 mark
b.	Identify two places in horses' bodies where g	ramete production occurs.	2 marks
Qu	estion 11 (3 marks)		
A h	unter's bump is a conformation fault in horses.		
a.	Describe the visible signs of a hunter's bump		1 mark
b.	Explain the internal changes in a horse's body	y that cause a hunter's bump.	2 marks
	estion 12 (2 marks) t one advantage and one disadvantage of feeding	ng at the same time every day.	
	Advantage	Disadvantage	
_			
1		1	1

Question 13 (10 marks)

Horses can develop laminitis due to a number of reasons, including obesity or non-weight-bearing lameness.

What are three initial signs displayed by a horse with laminitis?	3 mark
Explain what happens structurally when a horse develops laminitis.	4 marl
A pony on good pasture has developed mild laminitis due to becoming obese.	
Describe three management strategies to prevent the pony's condition from progressing further.	3 mark

Question 14 (9 marks)

A horse has a cleaned wound on the lower leg that requires bandaging.

dentify three safe work practices, other than wearing PPE, that should be implemented when pplying the bandage.	3 m
Following the practices identified in part a. , describe the steps required to correctly apply a pandage to the horse's leg.	6 m

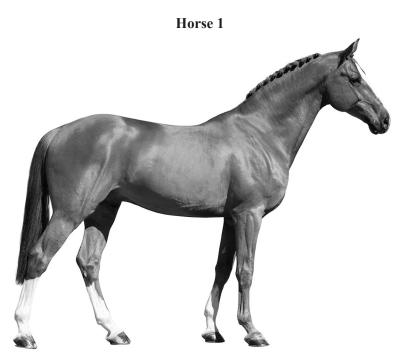
Question 15 (4 marks) Micronised and extruded horse feeds have advantages over feeding with whole grains.		
Describe micronised and extruded horse feeds, and their advantages over whole grains.		
Question 16 (3 marks)		
Describe sidebone and two conformation attributes that may lead to a horse developing sidebone.		

Question 17 (8 marks)

Compare the two horses pictured below.

Discuss their suitability for elite level eventing, based on the following attributes:

- conformation related to soundness for eventing
- conformation influencing movement for this purpose
- ability to perform at this level based on conformation features
- overall balance.



Source: Olga_i/Shutterstock.com



Source: Eric Isselee/Shutterstock.com

