



7457-407 MARCH 2020

Level 3 Diploma in Equine Veterinary Nursing

Level 3 Anatomy and Physiology Knowledge – Paper 3

If provided, stick your candidate barcode label here.

**Wednesday 4 March 2020
09:30 – 11:30**

Candidate name (first, last)

First

Last

Candidate enrolment number


Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration*

- If additional answer sheets are used, enter the additional number of pages in this box. 
- Before taking the examination, **all candidates** must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
- Please ensure that you staple additional answer sheets to the **back** of this answer booklet, clearly labelling these with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue** pen. **Do not** use a pencil or gel pen, unless otherwise instructed.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. Do not write on the source documents.

***I declare that I had no prior knowledge of the questions in this examination and that I will not divulge to any person any information about the questions.**

You should have the following for this examination

- a ball-point pen with blue or black ink

General instructions

- Use black or blue ball-point pen.
- The marks for questions are shown in brackets.
- This examination contains **15** questions. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.



1 Define the following directional terms:

a) Median/mid-sagittal plane. (1 mark)

b) Sagittal/paramedian plane. (1 mark)

c) Dorsal plane. (1 mark)

d) Transverse plane. (1 mark)

2 Give a definition for the following prefixes:

a) Ante. (1 mark)

b) Dys. (1 mark)

c) Hypo. (1 mark)

d) Neo. (1 mark)

e) Pseudo. (1 mark)

3 Define the following terms in relation to joint movement:
a) Flexion. (1 mark)

b) Adduction. (1 mark)

c) Circumduction. (1 mark)

4 Using the correct terminology, identify **three** anatomical landmarks found in the hindlimb, including the pelvis. (3 marks)

5 List **two** clinically significant arteries that can be used as anatomical landmarks in equids. (2 marks)

6 Name **three** body cavities. (3 marks)

7 Explain **two** differences between mitosis and meiosis. (4 marks)

8 Explain the term **osmosis**. (2 marks)

9 Explain the function of the following components of the eye: (1 mark)

a) Cornea.

b) Nictitating membrane. (1 mark)

c) Corpora nigra. (1 mark)

d) Sclera. (1 mark)

10 State the dental formula for:

a) An adult horse. (1 mark)

b) A foal. (1 mark)

11 a) Describe the location of the **Caecum**. (2 Marks)

b) Describe **three** functions of the **Caecum**. (3 marks)

12 a) State **two** components that make up the central nervous system. (2 marks)

b) Explain the function of the central nervous system. (3 marks)

13 Describe the function of the following components of a neuron:

a) Soma. (1 mark)

b) Axon. (1 mark)

c) Dendrites. (1 mark)

d) Synapses. (1 mark)

14 State the origin and insertion for the **Trapezius** muscle. (2 marks)
