



7457-402 MARCH 2020

Level 3 Diploma in Small Animal Veterinary Nursing

Level 3 Anatomy and Physiology Knowledge Test – 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 13 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 anatomical directional terms: (1 mark)

a) Caudal.

b) Contralateral. (1 mark)

c) Plantar. (1 mark)

2 State the following boundaries of the thoracic cavity: (1 mark)

a) Cranial.

b) Lateral. (1 mark)

c) Caudal. (1 mark)

3 Name **one** palpable artery **and** state where it is anatomically positioned in a dog. (2 marks)

4 State the function of the following organelles in an animal cell: (1 mark)

a) Mitochondrion.

b) Ribosomes. (1 mark)

c) Lysosomes. (1 mark)

5 Explain the function of the following glands:

a) Exocrine.

(2 marks)

b) Endocrine.

(2 marks)

6 Explain the role and function of the liver **and** gall bladder in the digestion **and** metabolism of fats.

(4 marks)

8 Describe the structure **and** function of the following components of the eye:

a) Cornea.

(2 marks)

b) Iris.

(2 marks)

c) Retina.

(2 marks)

9 State **four** anatomical features specific to the digestive system of a Passerine bird.

(4 marks)

10 Describe the following terms in relation to respiration:

a) External respiration. (1 mark)

b) Internal respiration. (1 mark)

c) Tidal volume. (1 mark)

d) Minute volume. (1 mark)

e) Obligate nasal breathing. (1 mark)

11 Name the **three** extrinsic muscles of the forelimb. (3 marks)

12 List **three** functions of the kidney. (3 marks)
