



## 7457-402 DECEMBER 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 16 December 2020 09:30 – 11:30

Candidate name (first, last)
First
Second Second

- 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 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.

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745	7-402	16 December 2020	+	
1	Defi a)	ne the following physiological terms. Hyperthermia.	(1 mark)	
	b)	Chondritis.	(1 mark)	
	C)	Dysphagia.	(1 mark)	
2	Nan	ne <b>one</b> site for venepuncture <b>and</b> state where it is anatomically positioned in a dog.	. (2 marks)	
3	a)	Name the synovial joint between the femur and tibia.	(1 mark)	
	b)	Classify the joint type by range of movement.	(1 mark)	
	C)	State <b>one</b> type of movement made by this joint.	(1 mark)	

+	745	7-402		16 December 2020
	4	a)	List the <b>four</b> active phases of mitotic cell division.	(4 marks)
		b)	Name <b>one</b> example of a tissue type that is replaced by mitotic cell division.	(1 mark)
		C)	State the cell organelle in which this division occurs.	(1 mark)
	5	a)	Define the term electrolyte.	(1 mark)
		b)	Name <b>one</b> electrolyte that can be found in Extracellular Fluid (ECF).	(1 mark)
	6	a)	Name the tactile hairs commonly known as whiskers in dogs and cats.	(1 mark)
		b)	State the function of these hairs.	(1 mark)
	7	a)	Define the term sesamoid.	(1 mark)
		b)	State the function of sesamoid bones.	(1 mark)
		C)	Name <b>one</b> example of a sesamoid bone <b>and</b> state where it is in the body.	(2 marks)

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745	57-402		16 December 2020
8	a)	State the scientific term for the sensation of taste.	(1 mark)
	b)	Name the <b>three</b> cranial nerves involved with the sense of taste <b>and</b> the area of the tongue they innervate.	- (6 marks)
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9	a)	Name the hormone that regulates red blood cell production.	(1 mark)
	b)	Name the organ of production for this hormone.	(1 mark)
	C)	Explain the negative feedback loop in relation to this hormone.	(4 marks)
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+	7457-402		16 December 2020	
	10	a)	Name the structure that initiates the heart to contract.	(1 mark)
		b)	State where this structure can be located.	(1 mark)
		C)	Define the term myogenic in relation to this structure.	(1 mark)
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	11	Defin a)	ne the following terminology associated with respiration. Residual volume.	(1 mark)
		b)	Functional residual volume.	(1 mark)
	12	a)	Name the structure in the kidney that antidiuretic hormone acts upon.	(1 mark)
		b)	Briefly describe the effect of the hormone on the structure.	(1 mark)
	13	a)	Name <b>one</b> accessory gland to the genital tract of a male cat.	(1 mark)
		b)	Give <b>one</b> function of the seminal fluid produced in the gland.	(1 mark)

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7457	7-402		16 December 2020
14	a)	Name the paired olfactory organ in snakes.	(1 mark)
	b)	State the location of this organ.	(1 mark)
	C)	State <b>two</b> functions of this sense.	(2 marks)

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include the entire digestive process from ingestion to absorption.	(12 ma

16 December 2020

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