

0172-545 JUNE 2023

Level 3 Technicals in Animal Management (Science)

Level 3 Animal Management – Theory exam (2)

If provided, stick your candidate barcode label here.

Monday 5 June 2023
09:30 – 11:30

Candidate name (first, last)

First

[illegible]

Last

[illegible]

Candidate enrolment number

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Date of birth (DDMMYYYY)

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Gender (M/F)

5


Assessment date (DDMMYYYY)

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Centre number

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Candidate signature and declaration*

- If additional answer sheets are used, enter the additional number of pages in this box. 

0	0
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- 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.

(2 marks)

(1 mark)

(1 mark)

(6 marks)

- 4 A veterinary nurse in practice has noticed an uncapped needle in the general waste bin.

Explain **one** action the veterinary nurse **must** take to comply with **one** piece of current legislation.

(4 marks)

- 5 Define the term 'compound' when used in chemistry.

(2 marks)

- 6 State **two** properties of a proton.

(2 marks)

- 7 Write the equilibrium constant expression for the following reaction.
 $\text{CO}_2(\text{g}) + \text{H}_2(\text{g}) \rightleftharpoons \text{CO}(\text{g}) + \text{H}_2\text{O}(\text{g})$

(3 marks)

- 8 Explain the benefits of using graphical representation of results in experimental design. (5 marks)

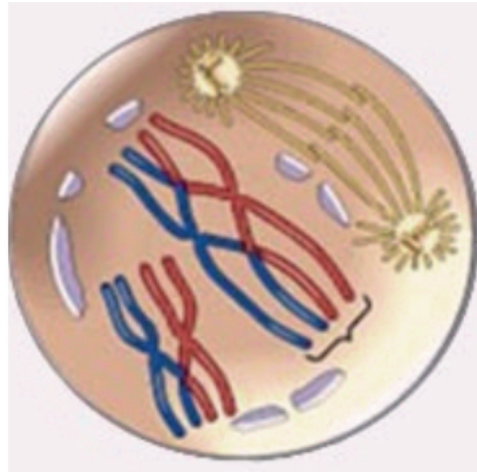
- 9 Name **two** enzymes involved in protein transcription. (2 marks)

- 10 State **two** animal cell organelles whose **main** function contributes to cellular waste disposal. (2 marks)

11 Identify the type **and** stage of cell division shown in **each** figure below.

a)

(2 marks)

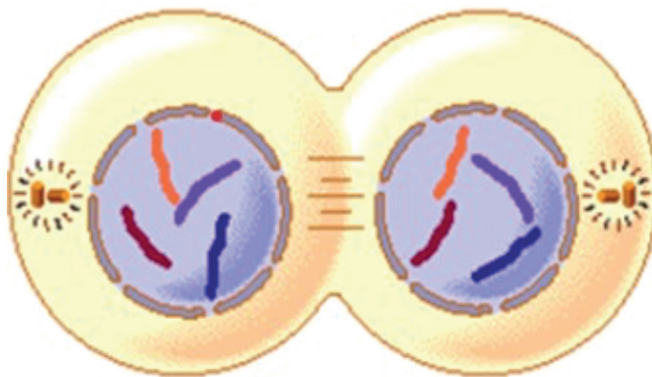


<https://quizlet.com/>

Figure 1

b)

(2 marks)



<https://www.quora.com/>

Figure 2

(2 marks)

(6 marks)

14 Explain **three** links between the structure and function of the skin.

(6 marks)

- (12 marks)

[illegible]

