Please check the examination details below	before entering your candidate information
Candidate surname	Other names
Pearson BTEC Level 3 Nationals Certificate, Extended Certificate, Foundation Diploma, Diploma, Extended Diploma Diploma	Learner Registration Number
Wednesday 5 Ju	ne 2019
Morning (Time: 1 hour 30 minutes)	Paper Reference <b>20108K</b>
Equine Manageme Unit 1: Equine Structure, Fo	
You do not need any other materials.	Total Marks

## **Instructions**

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and learner registration number.
- Answer all questions.
- Answer the questions in the spaces provided
  - there may be more space than you need.

## Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets
  - use this as a guide as to how much time to spend on each question.

## **Advice**

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ▶



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## Answer ALL questions. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box  $\boxtimes$ . If you change your mind about an answer, put a line through the box  $\boxtimes$  and then mark your new answer with a cross  $\boxtimes$ .

- 1 Figure 1 shows the anatomy of the equine front leg.
  - (a) Label bones A and B in **Figure 1** using the boxes provided.

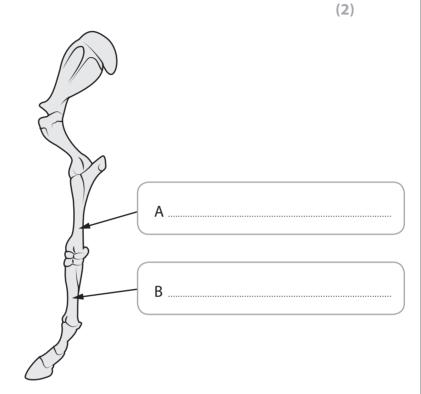


Figure 1



2



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Figure 2 shows the internal structure of the hoof and lower leg.

Four structures have been labelled: A, B, C and D.

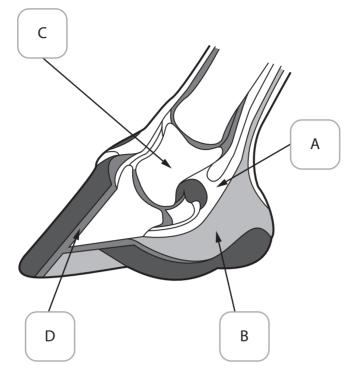


Figure 2

(b) Identify the deep digital flexor tendon (DDFT).

(1)

- $\boxtimes$  A
- $\bowtie$  B
- X C
- $\times$  D

(c) Describe <b>two</b> ways the structure of tendons aid their function.	(4)
2	
(d) Explain the function of the suspensory ligament.	(2)
(Total for Qu	estion 1 = 9 marks)

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**2 Figure 3** shows a cross section of a stallion's reproductive system.

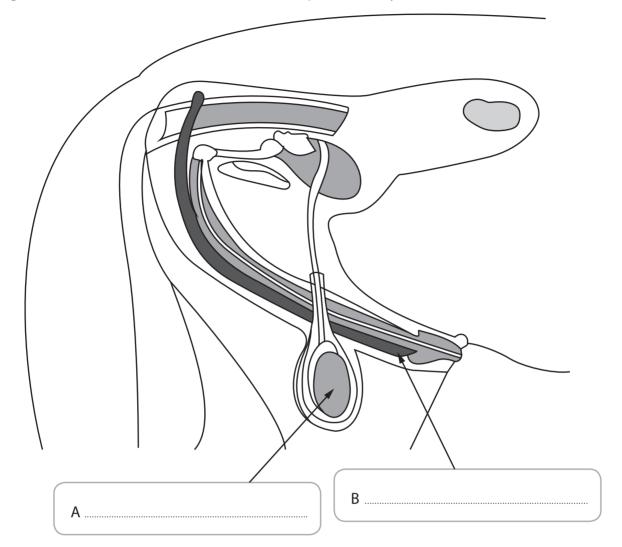


Figure 3

(a) Identify structures A and B in **Figure 3** by labelling the boxes provided.

(b) Explain **two** features of a stallion's penis which aids reproduction.

(4)

(2)

2

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(c) Describe the movement of an ovum (egg) through the mare's reproductive system.	(4)
(Total for Question 2 = 10 ma	rks)

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(a) Explain <b>one</b> function of the equine eyelid.	(2)
(b) Explain <b>two</b> features of the equine eye that allow horses to see in of light.	n low levels (4)
(c) Explain what is meant by <b>monocular vision</b> .	(2)



(d) Explain <b>two</b> features of the equine eye that allow images to be focused.	(4)
(Total for Question 3 = 12	marks)
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4	(a) Explain the role of the hormone oxytocin.	(2)
	(b) Explain <b>two</b> roles of the adrenal glands.	(4)
1		
2		
	(c) Describe how the equine body responds to an increase in blood glucose levels.	(4)
	(Total for Question 4 = 10 ma	rks)



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5	Discuss equine conformation faults.

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	••••
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(Total for Question 5 = 8 marks)	_



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6	(a) State <b>one</b> function of arteries.	(1)
	(b) Describe <b>two</b> ways to measure cardiovascular output.	(4)
2 .		
•••••	(c) Describe how the equine heart rate is controlled during increased exercise.	(4)

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d) Compare red and white blood cells.	(4)
	(Total for Question 6 = 13 marks)



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7 (a) State <b>two</b> muscles found in the equine neck or shoulder.	(2)
2	
(b) Describe the structure of cardiac muscle.	(4)
(c) Describe the structure of long bones.	(4)
(Total for Question 7 = 10	marks)

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	and tissues.		
Discuss ho	w the Bohr effect impacts this exchange.	(8)	
		(8)	

