Please check the examination details below	before entering your candidate information
Candidate surname	Other names
Pearson BTEC Level 3 Extended Certificate, Foundation Diploma, Diploma, Extended Diploma	Learner Registration Number
Wednesday 8 Ja	nuary 2020
Afternoon (Time: 1 hour 30 minutes)	Paper Reference 20108K
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 ▶



(2)

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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 urinary system.
 - (a) Label parts A and B in Figure 1 using the boxes provided.

Kidney

B

Urethra

Figure 1



2



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Figure 2 shows the internal structure of a nephron.

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

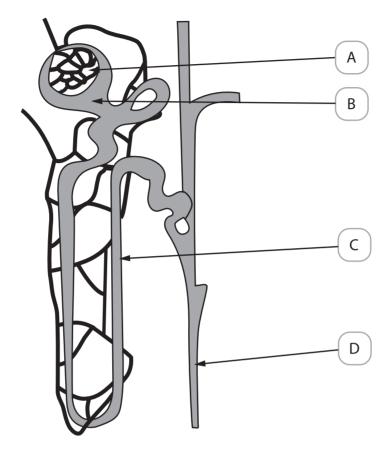


Figure 2

(b) Identify the glomerulus.

(1)

- \mathbf{X} A
- \bowtie B
- **⊠** C

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(c) Explain two roles of sweat.	(4)
1	
2	
(d) Explain one role of antidiuretic hormone (ADH).	(2)
(Total for Question 1 =	9 marks)

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2 Figures 3 and **4** show foreleg conformation faults.

(a) Identify the named conformation fault in **Figures 3** and **4** by labelling the boxes provided.

(2)

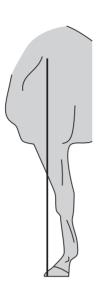


Figure 3



Figure 4

		_

(b) Describe **two** types of joint found in the equine leg.

(4)

	 	 	•••••	 	 	 	 	•••••	 	 	 	
	 	 		 	 	 	 	•••••	 	 	 	
2	 	 		 	 	 	 		 	 	 	

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(c) Describe how weight bearing changes between trot and cant	er. (4)
(Total for	Question 2 = 10 marks)
(a) Explain one role of the Purkinje fibres.	(2)
(b) Describe the structure of the equine heart.	
	(4)

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(c) Explain what is meant by diastole.	(2)
(d) Explain two ways the structure of capillaries aids their function.	(4)
(Total for Question 3	3 = 12 marks)



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4	(a) Explain the role of simple epithelial cells.	(2)
	(b) Explain two roles of tendons.	(4)
1		
2		
	(c) Describe the structure of striated muscle.	(4)
	(Total for Question 4 = 10 ma	rks)

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5 Discuss the structure and function of the equine lymphatic system.	(8)



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(Total for Question 5 = 8 marks)

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6 (a) State the location of the thyroid gland in an equine.	(1)
(b) Explain the actions of two hormones released by the thyroid glan	nd. (4)
2	
(c) Describe the hormonal control of ovulation in equines.	
	(4)



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(d) Explain two actions of insulin.	(4)
)	
(Total for Question 6 = 13 n	narks)
(a) State the name of two divisions of the vertebral column.	(2)
(b) Describe the bones in the equine lower front leg, from the knee to the hoof.	(4)

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(c) Describe the structure of osteons.	(4)
	(Total for Question 7 = 10 marks)



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8 Discuss how hoof structure affects equine stability.		
		(8)

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(Total for Question 8 = 8 marks)
(Total for Question 8 = 8 marks) TOTAL FOR PAPER = 80 MARKS



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