

**AMTRA MARKETING AUTHORISATION HOLDERS EXAMINATION**

**SPECIMEN II: Paper II**

CANDIDATE AMTRA NO: .....

CANDIDATE NAME IN FULL (BLOCK CAPITALS - SURNAME FIRST)

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CANDIDATE SIGNATURE: .....

DATE.....

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**Instructions to Candidates**

1. Candidates must complete all details required above.
2. Enclose all rough work.
3. Duration of examination: 2.5 hours
4. Each question is worth 20 marks (total of 60 on the paper)
5. Answer three questions in total, each on a new sheet of paper. Answer **one** question from section A and **two** from section B
6. Diagrams should be used wherever possible.
7. Indicate clearly which questions were answered and the order in the table below  
You may not leave the examination during the first 30 minutes or the last 10 minutes.
8. Leave all paper on the desk at the end of the examination

QUESTION NUMBER				TOTAL
EXAMINERS MARK				

## SECTION A

## ANSWER ONE QUESTION

1. Describe how oxygen is drawn into the lungs and its passage to a cell explaining any structural adaptations to facilitate the process
2. For a named animal of your choice, describe the structure of the **female** reproductive system and show how it achieves its two functions of gamete production and feeding/housing the developing animal until birth
3. Discuss the value of vaccination in the control of animal disease for the individual and the population. Compare this method of controlling disease with other methods available
4. Liver and kidney disease can influence how an animal's body deals with drugs. Analyse the role of these organs in drug handling and the influence of disease on these processes

## SECTION B

## ANSWER TWO QUESTIONS

5. Outline the life cycle of the tapeworm (*Diplydium caninum*) and describe how tapeworm infestations in the dog can be controlled by interrupting the life cycle
6. Tumours in endocrine organs can lead to a number of endocrine disorders. Compare and contrast **TWO** conditions where **over**production of a hormone occurs as a result of a tumour
7. Evaluate the role of sedatives and anaesthetics in small animal veterinary practice
8. Compare and contrast the process of digestion in either a cat eating meat and a guinea pig eating a cereal ration with hay or a sheep eating grass and a hen eating grain
9. Use a named farm animal to discuss the main health issues to be addressed during the production cycle
10. a) Explain the process of superovulation, describing the hormones used and any advantages of the technique for a commercial farmer (10)  
  
b) With reference to sows, what are the possible problems that occur around the time of farrowing and how can artificial induction of the process help? How is induction achieved practically? (10)
11. With reference to a named **endoparasite** of cattle or sheep, list the main signs and implications of infestation and show how a knowledge of the parasite's life cycle enables its control