

**AMTRA MARKETING AUTHORISATION HOLDERS EXAMINATION**

**SPECIMEN I: 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. With reference to a named animal, show how the structure and functioning of its digestive system determines the type of food that can be digested
2. Explain how the kidney functions to regulate the composition of the blood and why this is important
3. Explain the difference between innate and acquired immunity and describe the methods by which immunity can be acquired and the advantages and disadvantages of these
4. State the main functions of the respiratory system in a mammal and explain how the structure of the system allows them to be carried out

## SECTION B

## ANSWER TWO QUESTIONS

5. Discuss the various anatomical and physiological problems that may be found in a 9yr old Labrador bitch
6. 'The control of zoonotic diseases is vitally important'. Illustrate this statement by reference to the care of a range of companion animals
7. a) Explain what is meant by pseudopregnancy and its cause in the bitch and queen cat (10)  
b) How may hormones be used to suppress oestrus and prevent the results of misalliance in these two species? (10)
8. With reference to a named ectoparasite, list the main symptoms and medical implications of infestation and show how a knowledge of the parasite's life cycle enables its control
9. Anthelmintic resistance in ovine Endoparasites is a serious threat to sheep production in the UK. Describe what steps a sheep farmer can take to reduce the risk of resistance on his farm
10. Describe the hormonal control of the oestrus cycle in a cow and explain how oestrus can be synchronised by TWO different methods, giving the advantages and disadvantages for a cattle farmer
11. For either pigs or sheep, describe the main health issues to be considered throughout the production cycle