

Candidate No.....

AMTRA MARKETING AUTHORISATION HOLDERS
REPRESENTATIVES SCHEME EXAMINATION

(date)

Paper II

CANDIDATE'S AMTRA NO

CANDIDATE'S NAME IN FULL (BLOCK CAPITALS - SURNAME FIRST)

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CANDIDATE'S SIGNATURE

DATE.....

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 3 questions in total, on a new sheet of paper. Answer one question from section A and two questions from section B.
6. Diagrams should be used wherever possible.
7. Indicate clearly which questions were answered and the order in the table below.
8. Leave all paper on desk at end of examination.

Question Number				Total

Candidate No.....

Examiner's Mark				
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SECTION A

Answer 1 question

- 1. Transmission of infectious disease organisms varies. Using examples, discuss how transmission of disease from one animal to another occurs and indicate how this can influence methods of prevention, control and treatment of infectious disease.**
- 2. Explain the structure and functioning of the mammalian kidney.**
- 3. List the major components of blood and explain their functions.**
- 4. Explain how the structure of the digestive system allows food to be digested in a named species.**

SECTION B

Answer 2 questions

5. With reference to companion animals, discuss the advantages and constraints of vaccines in protecting their health.
- 6a. Describe the life-cycle of the common cat and dog flea (*Ctenocephalides felis*). As part of your answer draw a diagram illustrating the main stages of the cycle. (10)
- 6b. Discuss the ways in which control of the flea may take place in the domestic household with reference to the stages of the life-cycle that are relevant. (10)
7. “It is important to control zoonotic diseases”. Explain this statement by referring to the care of a range of companion animals.
8. Explain the role of correct feeding throughout the lifetime of either
 - a) a dairy cow
 - or
 - b) a bitch
9. Use a named farm animal to discuss the main health issues to be addressed during the production cycle.
- 10a. Describe the hormonal and nervous processes that lead to calving and how these differ from the events leading to lambing. How does this affect the hormones that are used for the induction of birth in these species? (10)
- 10b. 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. For a cattle or pig farm, discuss the knowledge required to develop a worming programme for the herd and give examples to illustrate your answer.