

AMTRA MARKETING AUTHORISATION HOLDERS EXAMINATION

SPECIMEN II: Paper I

CANDIDATE AMTRA NO

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

.....

CANDIDATE SIGNATURE

DATE.....

Instructions to Candidates

1. Candidates must complete all details required above.
2. Enclose all rough work.
3. Duration of examination: 2 hours
You may not leave the examination during the first 30 minutes or the last 10 minutes.
4. Candidate's name or number must be put on the top right hand corner of each page.
5. ALL questions to be attempted.
6. Incorrect answers to multiple choice questions will carry a small penalty mark. (You are advised not to guess).

EXAMINERS MARK	TOTAL
Paper I	
<i>Paper II</i>	
<i>Oral</i>	
Overall Mark	

In questions 1-10 (MULTIPLE CHOICE QUESTIONS) put the correct letter in the box provided.

1) – 10)

11) Explain what is meant by the following abbreviations and who may supply the product;

i) POM-V

.....

.....

(2)

ii) AVM-GSL

.....

.....

(2)

12) What is meant by term ‘withdrawal period’?

.....

.....

(1)

13) What is an ‘MRL’?

.....

.....

(1)

14) Give ONE way in which you could recognise a particular product had received authorisation for use as a veterinary medicine.

.....

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(1)

Continued.....

- 15) What is the main characteristic of a suppurative type of inflammation?
 (1)
- 16) Which is the most common antibody found circulating in the blood?
 (1)
- 17) What is the function of the B lymphocytes?
 (1)
- 18) What is meant by 'innate immunity' and give an example?

 (2)
- 19) Which route of administration of a drug gives the most rapid effect?
 (1)
- 20) Name TWO factors which affect the absorption of a drug administered orally
 i).....
 ii)..... (2)
- 21) What is meant by the 'half life' of a drug?
 (1)
- 22) Give an **ectoparasite** of importance for each of the species listed in **either a) or b)** below. Do not use the same parasite twice.
- | | | |
|-------------|-------------|-----|
| a) Pig..... | b) Dog..... | |
| Sheep..... | Cat..... | |
| Cow..... | Bird..... | (3) |

- 23) What is the **functional** difference between a sensory and a motor neuron?
.....
..... (1)
- 24) i) What is the purpose of the lymphatic system?
.....
..... (1)
- ii) Give ONE difference between the lymphatic system and the blood system.
.....
..... (1)
- 25) Name TWO materials present in the glomerular filtrate which may be reabsorbed in the proximal convoluted tubule (first convolution)
.....
..... (2)
- 26) Give TWO functions of the hormone oestrogen
- i)
- ii) (2)
- 27) Give TWO functions of the hormone progesterone
- i)
- ii) (2)
- 28) Which hormone is responsible for the final uterine contractions resulting in the delivery of the foetus?
..... (1)

29) Name ONE accessory gland in the reproductive system and a function of it

.....
.....

(2)

30) Name ONE process that occurs inside the epididymis

.....

(1)

31) Give THREE differences between tapeworms and roundworms

i).....

ii).....

iii).....

(3)

32) Name THREE organs in the body which can be infested by helminths

i).....

ii).....

iii).....

(3)

33) What do you understand by the term 'safety index' in relation to anthelmintic use?

.....

(1)

34) Inflammation is a body defence mechanism. Explain why the inflammatory process may not always be desirable

.....
.....
.....
.....

(2)

35) Name TWO hormones produced by the adrenal gland

.....
.....

(1)

36) Name FOUR routes by which vaccines are given

- i).....
- ii).....
- iii).....
- iv).....

(2)

37) What is zymogen?

.....
.....

(1)

38) Why is the production of a zymogen advantageous to an animal?

.....
.....

(1)

39) What are the end products of digestion of the following food components?

- i) Proteins.....
- ii) Fats.....

(2)

40) i) In all species which TWO processes occur in the small intestine?

.....
.....

(2)

Continued.....

ii) For one of these processes, name TWO adaptations found within the small intestine that facilitates the process

..... (2)

41) Explain the purpose and the functioning of the atrio-ventricular (cuspid) valves in the heart

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.....
.....
.....
.....
..... (3)

42) Why are fibrous carbohydrates so difficult to digest?

.....
..... (2)

43) What is meant by a 'non-essential' amino acid?

.....
..... (1)

44) Give 2 functions of calcium within the animal body

i).....

ii)..... (2)

Continued.....

45) What is meant by the term 'parasite'?

.....
.....

(2)

46) Why do animals need to eat?

.....
.....

(1)

47) Not all disease is infectious. Give THREE general categories of disease not caused by micro-organisms or parasites and name a specific example of each

i).....
.....

ii).....
.....

iii).....
.....

(3)

48) Name FOUR symptoms of a typical roundworm infestation

i).....

ii).....

iii).....

iv).....

(2)

49) i) Give an example of a fungal disease

.....

ii) Give an example of a protozoal disease

.....

(2)

50) Name TWO differences between viruses and bacterium

i).....

.....

ii).....

.....

(2)

51) Why is co-ordination by hormones ideally suited to processes such as reproduction, whereas nerves are used to control reflex actions?

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.....

.....

(2)

52) What does the term 'infectious disease' mean?

.....

.....

(1)

53) List THREE basic components that may be found in a commercial vaccine and give their function

.....

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.....

.....

.....

.....

(3)

54) What do you understand by the term ‘therapeutic drug resistance’?

.....
.....
.....
.....

(2)

55) Give an example of a different zoonotic disease for each of the following animal species;

Dog	
Cow	
Pig	
Chicken	
Horse	

(5)

56) How are impulses transmitted between neurons?

.....
.....
.....
.....

(2)

57) i) What is the function of the Loop of Henle?

.....
.....

(1)

Continued.....

ii) What would you predict about the length of the Loop of Henle in desert living animals and why?

.....

.....

.....

.....

(2)

End.