

**AMTRA MARKETING AUTHORISATION HOLDERS EXAMINATION**

**SPECIMEN I: Paper I**

CANDIDATE'S AMTRA NO: .....

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

.....

CANDIDATE'S 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 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).

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

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

1) – 10)

11) Explain what is meant by the following abbreviation and who may prescribe it:  
NFA-VPS

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

(2)

12) State THREE functions of the liver

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

(3)

13) a) What does ‘pathogen’ mean?

.....

(1)

b) Name TWO different types of pathogens and give an example of each.

- i).....
- ii).....

(2)

14) What were the ‘5 freedoms’ written to ensure?

.....

(1)

Continued.....



19) What happens during the process of internal respiration?

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

(2)

20) Give TWO differences between nerve-controlled and hormone-controlled actions.

- i).....
- ii) .....

(2)

21) What is an action potential?

.....

(1)

22) What are TWO characteristics of a reflex action (reflex arc)?

- i) .....
- ii) .....

(2)

23) Name THREE hormones secreted by the pituitary gland and state the function of each

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

(3)

24) What is characteristic of fibrinous inflammation?

.....  
.....

(1)

Continued.....

25) What is the 'latent period' in the immune response?

.....  
.....

(1)

26) Name TWO methods by which drugs can be excreted from an animal's body

- i).....
- ii).....

(2)

27) Name TWO macro-elements and state the function of each.

- i).....
- ii).....

(2)

28) What is an essential amino acid?

.....  
.....

(1)

29) State TWO differences between benign and malignant tumours.

- i).....
- ii).....

(2)

30) What is a parasite?

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

(2)

Continued.....

31) Explain what is meant by the term 'encysted larva' and give an example of one.

.....  
.....

(2)

32) Give TWO differences between a mite and a flea.

i).....

ii).....

(2)

33) a) Name FOUR categories of disease not caused by infectious agents.

i).....

ii).....

iii).....

iv).....

(4)

b) What is the function of the immune response?

.....  
.....

(1)

34) What is neoplasia?

.....  
.....

(1)

35) Explain the process of coprophagy

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

(2)

36) Give an example of a **notifiable** disease for each of the following animal species.  
Do not use the same disease twice.

Dog	
Cow	
Pig	
Chicken	
Horse	

(5)

Continued.....

37) Fill in this table. The first row is an example of the type of answer required.

Type of pathogen	Example organism	Disease caused	Species of animal
CHLAMYDOPHILA	Chlamydophila abortus ovis OR Chlamydophila psittisi	Abortion  Psitticosis or pneumonia	Sheep  Parrots/birds
BACTERIA			
FUNGI			
PROTOZOA			
VIRUS			

(6)

38) Give an **ectoparasite** of importance for each of the species listed below. Do not use the same parasite twice.

Pig.....

Dog.....

Cat.....

Sheep.....

Cattle.....

Chicken.....

(6)

Continued.....



b) How is it derived?

.....  
.....

(1)

42) Explain what is meant by the following terms:

a) Oestrus

.....  
.....

(1)

b) Ovulation

.....  
.....

(1)

c) Ejaculation

.....  
.....

(1)

43) a) What is the function of the Loop of Henle?

.....  
.....

(1)

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

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

(2)

Continued.....

44) Explain the purpose and functioning of the atrioventricular (cuspid) valves in the heart

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.....

.....

.....

.....

.....

(3)

45) What is an allergy?

.....

.....

(1)

End.