

**Level 2 National Certificate
in Animal Care
Level 3 Advanced National
Certificate/Diploma
in Animal
Management
(0341)**



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Exemplar paper



341-230 Paper title: Level 2 National Certificate in Animal Care
Duration: 1 ½ hours Assessment type: Multiple choice No of items: 50
Pass 25/50 50%, Merit 32/50 64%, Distinction 40/50 80%

Paper title: Level 2 National Certificate in Animal Care – multiple choice			
0341-12-230			
Test duration 1 ½ hours			
Unit	Unit title	No of questions (1 mark each)	%
231	Animal health and wellbeing	15	30
232	Feeding and watering animals	15	30
233	Work related experience in the Land-based sector	10	20
234	Safe working with and around animals	10	20
Totals		50	100

Question 1

What is the normal resting respiratory rate for a dog?

- a. 50-60 respirations per minute.
- b. 40-60 respirations per minute.
- c. 10-30 respirations per minute.
- d. 5-10 respirations per minute.

Question 2

By which route of medication administration can flea treatment be applied?

- a. Orally.
- b. Nasally.
- c. Topically.
- d. Rectally.

Question 3

When compared with adult animals, young animals' diets contain increased levels of

- a. fat
- b. carbohydrates
- c. protein
- d. fibre.

Question 4

Animals that are fed less than their daily requirement will eventually become

- a. anorexic

- b. obese
- c. malnourished
- d. bored.

Question 5

What should all members of staff within the work place be vaccinated against?

- a. Distemper.
- b. Yellow fever
- c. Tetanus.
- d. Rabies.

Question 6

The legal responsibilities of an employee with regard to health and safety will always include

- a. learning health and safety law and regulations
- b. co-operation with the employer on health and safety
- c. managing the risk assessment process
- d. being appointed on to the safety committee.

Question 7

Before an employee is allocated specific manual handling tasks, the employer should always:

- a. issue a set of protective clothing
- b. assess the employee's individual capacity
- c. provide a training manual
- d. make suitable lifting gear available

Answers

1. C
2. C
3. A
4. C
5. C
6. B
7. B

0341-351 Advanced National Certificate in Animal Management Level 3

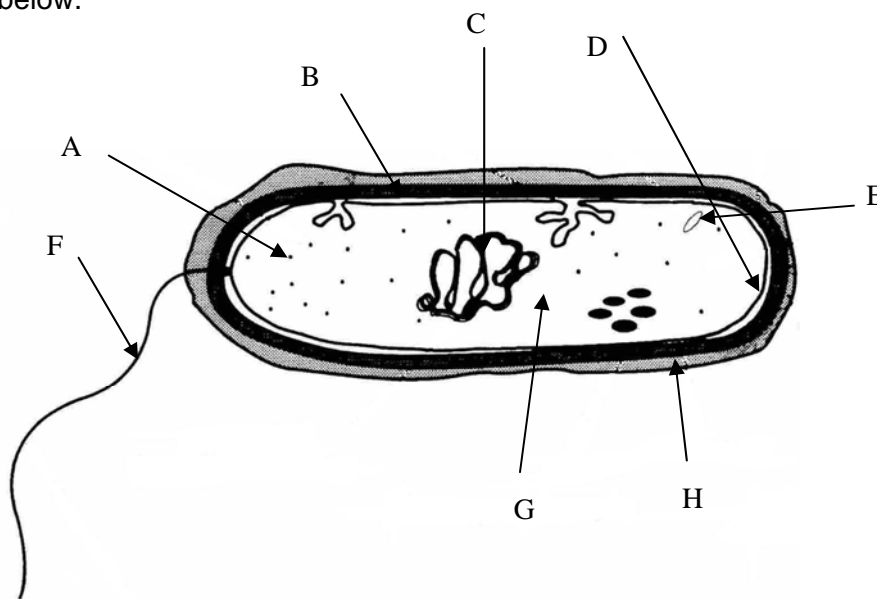
Paper title: Level 3 Advanced National Certificate in Animal Management Written paper 0341-13-D351				
Test duration 2.5 hours				
Unit	Unit title	No. of questions	No. of marks	%
321	Animal handling and safe working	5	20	25
322	Advanced animal health care	5	20	25
323	Animal science	5	20	25
324	Animal housing and feeding	5	20	25
	Totals	20	80	100

General Instructions

- All questions carry equal marks. The maximum marks for each section within a question are shown.
- This is a short answer question paper
- Answer **all twenty** questions.
- **Animal species** must be **named** where stated to achieve marks in those questions. For example 'sparrow' would be accepted but 'bird' would not.

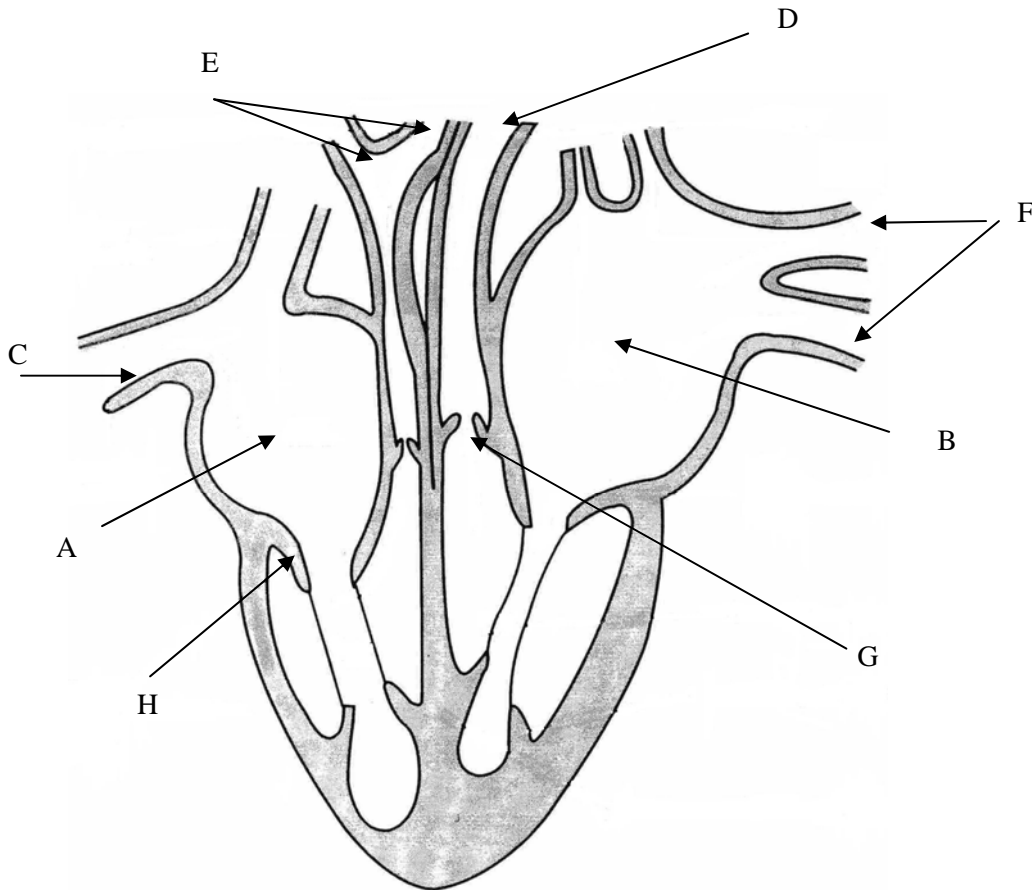
-
- 1 Give **four** examples of accidents or incidents that must be reported to the Health and Safety Executive. (4 marks)
 - 2 You are required to handle a rabbit that is not used to this procedure. For **each** of the following list **two** ways you would minimise physical risks to (2 marks)
 - a) yourself (2 marks)
 - b) the rabbit.
 - 3 For **each** of the following groups of people identify **one** specific risk associated with working in a cattery (1 mark)
 - a) pregnant woman (1 mark)
 - b) physically impaired (1 mark)
 - c) asthmatic (1 mark)
 - d) lone worker. (1 mark)
 - 4 You are working in a grooming parlour and have ordered a new disinfectant. (1 mark)
 - a) What legislative form must you complete before using the disinfectant? (3 marks)
 - b) State **three** factors that should be considered when completing this form in respect to health and safety.

- 5 a) List **three** pieces of equipment that should be used when handling and restraining a dog for grooming. (4 marks)
b) Describe **two** ways you would prevent a back injury to yourself when lifting a large dog onto a grooming table.
- 6 a) For **each** of the following describe **two** ways a rabbit could be provided with (3 marks)
(1 mark)
i) adequate exercise
ii) food and water
iii) housing and shelter.
b) State an additional **two** ways that promote the health and wellbeing of a rabbit.
- 7 Name the **eight** structures labelled A-H on the diagram of a bacterium below. (4 marks)



- 8 Give **four** examples for **each** the following (4 marks)
a) Zoonotic disease
b) Notifiable disease.
- 9 a) State **two** types of medication for **each** of the following methods of administration (3 marks)
(1 mark)
i) oral
ii) topical
iii) liquid.
b) State **two** routes of injecting medicines into an animal.
- 10 Identify **eight** items of a fully stocked animal first aid kit. (4 marks)
- 11 State the function of the following cell organelles (1 mark)
a) Mitochondria (1 mark)
b) Rough Endoplasmic Reticulum (1 mark)
c) Golgi Apparatus (1 mark)
d) Lysosomes. (1 mark)

- 12 List **four** digestive enzymes and which nutrients they act upon. (4 marks)
- 13 List **two** examples from **each** of the following categories (1 mark)
- a) Flat bones (1 mark)
 - b) Long bones (1 mark)
 - c) Short bones (1 mark)
 - d) Irregular bones
- 14 On the diagram of the heart below label A-H (4 marks)



- 15 List **four** functions of the liver. (4 marks)
- 16 a) For a **named** rodent species, state (1 mark)
- i) **one** suitable type of housing accommodation (1 mark)
 - ii) **one** suitable material for the construction of its housing. (1 mark)
- b) State **two** advantages and **two** disadvantages of the accommodation material outlined in aii). (2 marks)
- 17 Identify **two** situations when animal accommodation should **not** be cleaned out and for each explain why. (4 marks)

- 18 For a **named** animal species state **two** consequences of **each** of the following
- a) underfeeding (1 mark)
 - b) overfeeding (1 mark)
 - c) being given the wrong food (1 mark)
 - d) being given inadequate access to water. (1 mark)
- 19 Give **two** examples of sources where **each** of the following feedstuffs may be found
- a) protein (1 mark)
 - b) fats and oils (1 mark)
 - c) fibre (1 mark)
 - d) minerals and vitamins. (1 mark)
- 20 a) State **four** different feeding systems for a rabbit (lagomorph)
- b) For **each** system stated in a), briefly explain how they promote the health and welfare of the animal. (2 marks)

0341-352 Advanced National Diploma in Animal Management Level 3

Paper title: Level 3 Advanced National Diploma in Animal Management				
Written paper 0341-14-D352				
Test duration 3 hours				
Unit	Unit title	No. of questions	No. of marks	%
326	Advanced animal behaviour and communication	5	30	33.3
327	Animal science and reproduction	5	30	33.3
328	Animal nutrition	5	30	33.3
	Totals	15	90	100

General Instructions

- All questions carry equal marks. The maximum marks for each section within a question are shown.
- This is a short answer question paper
- Answer **all fifteen** questions.
- **Animal species** must be **named** where stated to achieve marks in those questions. For example 'sparrow' would be accepted but 'bird' would not.

-
- 1 a) State **two** features of language. (2 marks)
b) Summarise **four** key points to the work of von Frisch. (4 marks)
- 2 Identify the signaller, signal and receiver in a **named** example of
a) an Honest Signal (3 marks)
b) Batesian mimicry. (3 marks)
- 3 a) Name the researcher associated with establishing the principles of classical conditioning and state the species that he studied.
b) Identify the unconditioned stimulus (UCS), unconditioned response (UCR), conditioned stimulus (CS) and conditioned response (CR) in the original study. (2 marks)
- 4 a) Explain how ethogram data may be used to confirm the occurrence of an abnormal behaviour. (4 marks)
b) Give **four** examples of abnormal behaviour and **name** the associated species affected. (2 marks)
- 5 a) State the principal hormonal effect of neutering a male animal.
b) Describe **five** behavioural changes that may occur as a result of neutering. (1 mark)
- 6 a) Describe the role of hormones in lactation. (5 marks)
b) Describe **one** other non-hormonal factor influencing the process of lactation. (4 marks)
- (2 marks)

- 7 a) Define the term 'homeostasis'. (1 mark)
 b) Describe the role of a hormone. (1 mark)
 c) Complete boxes i-iv in the following table. (4 marks)

Organ	Hormone produced	Action of hormone
Ovary	i)	Maintaining Pregnancy
ii)	Insulin	Blood Glucose Regulation
Pituitary Gland	Antidiuretic Hormone	iii)
Adrenal gland	Adrenaline	iv)

- 8 a) List **four** ways that the spermatozoa is designed to fulfil its function. (4 marks)
 b) Describe **two** factors that may effect sperm production. (2 marks)
- 9 Describe the function of the following structures
 a) cornea (1 mark)
 b) iris (1 mark)
 c) pupil (1 mark)
 d) optic nerve (1 mark)
 e) cones (1 mark)
 f) lens. (1 mark)
- 10 a) Describe **three** ways that the skin can control body temperature. (3 marks)
 b) List and describe the **three** layers of the epidermis. (3 marks)
- 11 a) Give **two** different examples of potential dietary sources of carbohydrate for **each** of the following
 i) dog
 ii) rabbit. (2 marks)
 b) Explain why rabbits are able to utilise a wider range of dietary carbohydrate sources compared to dogs. (4 marks)
- 12 a) Define the term 'Basal Metabolic Rate' (BMR) (2 marks)
 b) Explain how BMR may be affected by
 i) environmental temperature (2 marks)
 ii) age of the animal (2 marks)
- 13 Define the following terms
 a) Gross energy (2 marks)
 b) Digestible energy (2 marks)
 c) Metabolisable energy. (2 marks)

- 14 Compare and contrast the process of carbohydrate digestion in the cat and the dog to include
- a) dietary choices (2 marks)
 - b) enzyme activity (2 marks)
 - c) anatomical adaptations. (2 marks)
- 15
- a) Define the term 'balanced diet'. (3 marks)
 - b) Explain the effect of palatability when trying to provide a balanced diet for an animal. (3 marks)

Additional sample questions

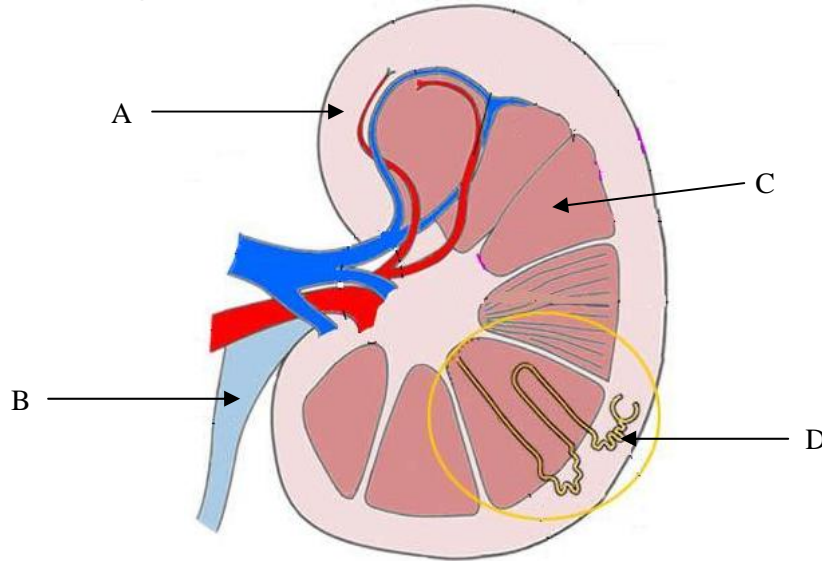
Exemplar questions for the 0341 Level 3 Animal Management exams

For each unit examined two exemplar questions have been provided. Please consult the test specifications in the qualification handbook for the full exam paper structure.

0341-13 ANC Animal Management

- Unit 321
- 1 State **four** factors to be considered when catching and handling a guinea pig from a group in a pen for a routine health check. (4 marks)
 - 2 Identify **four** hazards and their associated risks when working in an animal feed preparation area. (4 marks)
- Unit 322
- 3 State **two** of the five animal needs and how these can be promoted in **each** of the following animals
a) lactating bitch (2 marks)
b) geriatric cat. (2 marks)
 - 4 Describe **eight** key points to consider when moving and transporting a dog with a suspected broken foreleg from the site of the accident to the veterinary surgery. (4 marks)
- Unit 323
- 5 Describe briefly the following types of joint and give one example of where each would be found.
a) fibrous (1 mark)
b) cartilaginous (1 mark)
c) ball and socket (1 mark)
d) hinge joint (1 mark)

- 6 Name the parts of the kidney labelled A-D on the diagram below **and** state **one** function of **each** part. (4 marks)



Note: the circled area on the diagram has been enlarged and so is not to scale

- unit 324
- 7 State **one** advantage and **one** disadvantage for **each** of the following types of materials used to construct
- a) a dog kennel
 - i) wood (1 mark)
 - ii) metal (1 mark)
 - b) small rodent accommodation
 - i) plastic (1 mark)
 - ii) glass (1 mark)
- 8 Describe the main considerations to take when proposing a balanced diet for an adult Labrador (approximately 30kg) under each of the following headings.
- a) Content. (1 mark)
 - b) Frequency. (1 mark)
 - c) Quantity. (1 mark)
 - d) Storage. (1 mark)

0341-14 ANDip Animal Management

unit 326

- 1 For a **named** animal species describe the visual signs that would be associated with **each** of the following behaviours.
- a) Aggression. (2 marks)
 - b) Dominance. (2 marks)
 - c) Fear. (2 marks)
- 2 Describe **six main** points of von Frisch's findings on communication amongst honey bees as demonstrated through the waggle dance. (6 marks)

unit 327

- 3 Describe the reflex arc that occurs within the nervous system when a dog stands on a sharp object. (6 marks)
- 4 State **three** advantages and **three** disadvantages of artificial insemination in a **named** animal species. (6 marks)

unit 328

- 5 Describe **one** source and the **main** function of **each** of the following in the diet of a named animal species.
- a) Carbohydrates. (1 mark)
 - b) Protein. (1 mark)
 - c) Fats & oils. (1 mark)
 - d) Calcium. (1 mark)
 - e) Vitamin B₁₂. (1 mark)
 - f) Iron. (1 mark)
- 6 a) Define the following terms
- i) nutritional deficiency (1 mark)
 - ii) nutritional disorder (1 mark)
- b) Briefly describe the cause, signs, symptoms and treatment of periodontal disease in an animal. (4 marks)