



0171-510 MARCH 2018

**Level 3 Advanced Technical Extended Diploma in Agriculture
(Livestock)**

Level 3 Agriculture – Theory exam (2)

If provided, stick your candidate
barcode label here.

**Friday 16 March 2018
13:30 – 15:30**

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration*

• If any additional answer sheets are used, enter the additional number of pages in this box.

• Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.

• All candidates need to use a **black/blue pen**. **Do not** use a pencil or gel pen.

• If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

***I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**

You should have the following for this examination

- a pen with blue or black ink

General instructions

- Use black or blue ball-point pen.
- The marks for questions are shown in brackets.
- This examination contains 13 questions. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.



1 State **four** indicators a stockperson can use to assess the health of farm animals. (4 marks)

2 a) State **two** types of pathogens that can cause disease in farm animals. (2 marks)

b) Give an example of a livestock disease caused by **each** of the pathogens identified in 2a). (2 marks)

3 Describe the potential impact of a notifiable livestock disease on the farming business. (4 marks)

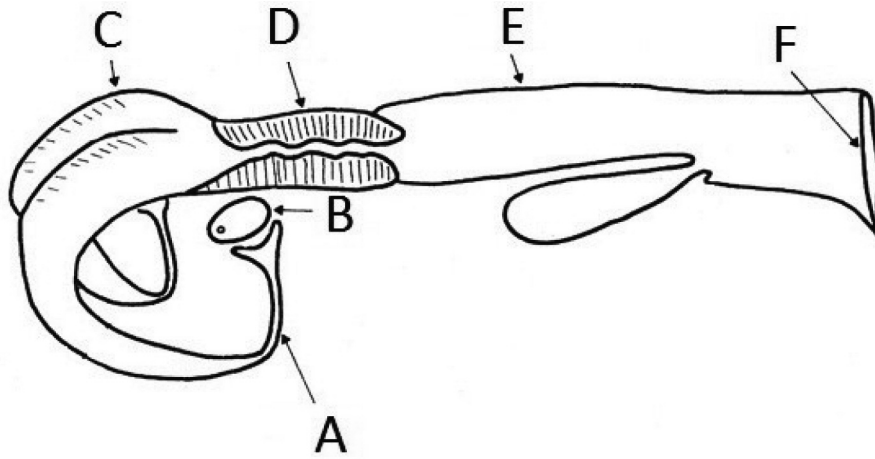
4 State **two** features of alveoli in the mammalian respiratory system. (2 marks)

5 a) Name **two** endocrine glands. (2 marks)

b) State **one** function for **each** of the glands named in 5a). (2 marks)

6 Describe **two** differences between a ruminant and a monogastric digestive system. (4 marks)

7 Name the parts of the female reproductive system, in Figure 1, labelled A-F. (6 marks)



http://aces.nmsu.edu/pubs/_b/B212/

Figure 1

8 a) State **two** methods of applying slurry as a fertiliser, which can reduce ammonia volatilisation. (2 marks)

b) List **two** benefits of anaerobic digestion of waste. (2 marks)

9 Explain how Global Positioning Systems (GPS) and nutrient management maps can help with organic fertiliser application and help protect the environment. (6 marks)

10 List **three** types of information found on a job card used to record maintenance tasks on All-Terrain Vehicles (ATV) and Rough Terrain Telescopic Forklifts (RTFL). (3 marks)

11 State **three** features that may be fitted as standard to a Rough Terrain Telescopic Forklift (RTFL) that may **not** be common to a tractor and fore end loader. (3 marks)

12 Describe how to ensure the Health and Safety at Work Act is met when operating an All-Terrain Vehicle (ATV) or Rough Terrain Telescopic Forklift (RTFL).

(4 marks)

13 Discuss the importance of correct nutrition during the breeding cycle of any one livestock species.

(12 marks)
