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)

5 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)

![Diagram of female reproductive system](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)